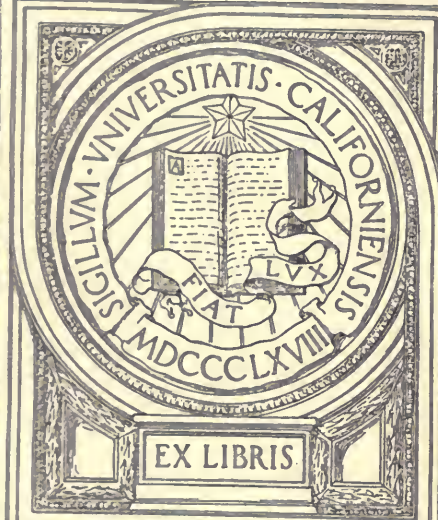


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To learn to classify is in itself an education

Alex. Bain

Decimal Classification

and

Relative Index

for libraries, clippings, notes, etc.

Edition 10, revized and enlarged

By

Melvil Dewey MA LL D

Forest Press
Lake Placid Club N Y
1919

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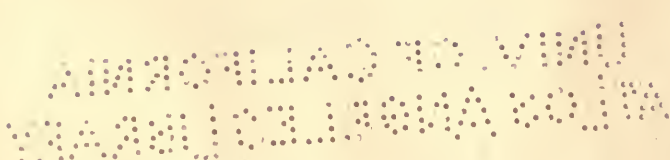
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EXPLANATION

The field of knowledge is divided into nine main classes and these are numbered by the digits, 1 to 9. Cyclopedias, periodicals, etc., so general in character as to belong to *no* one of these classes are marked nought, and form a tenth class. Each class is similarly separated into 9 divisions, general works belonging to *no* division having nought in place of the division number. Divisions are similarly divided into 9 sections and the process is repeated as often as necessary. Thus 512 means Class 5 (Natural Science), Division 1 (Mathematics), Section 2 (Algebra), and every Algebra is numbered 512.

The books on the shelves and the cards in the subject catalog are arranged in simple numerical order, all class numbers being decimals. Since each subject has a definite number, it follows that all books on any subject must stand together. These tables show the order in which subjects follow one another. Thus 512 Algebra precedes 513 Geometry and follows 511 Arithmetic.

Summaries. The first summary shows the ten Classes into which all topics are divided. The second summary shows the nine Divisions of each of the ten classes, and is useful as a bird's-eye view of the whole scheme on a single page. Then follow ten pages, one for each class, showing the nine Sections into which each of the nine divisions of each class are divided. These pages are to be used for a synoptic view on a single page of the scope of each class.

Sub-sections. Following these three summaries is the complete classification, which repeats, in proper order, all the classes, divisions, and sections with all the sub-sections given under each section. Synonymous terms, examples, brief notes, dates, and various catch-words are often added to the simple heads for the convenience of the user, who thus gets a fuller and clearer idea of the field which each number covers. Therefore all references to numbers should be looked up in the **full tables of sub-sections**; never in the Summaries, which are really only a table of contents of the Complete Tables.

Index. After the tables is an index, in which all the heads of the tables are arranged in one simple alphabet, with the class number of each referring to its exact place in the preceding tables. This index includes also, as far as they have been found, all the synonyms or alternative names for the heads, and many other entries that seemed likely to help a reader find readily the subject sought. Though the user knows just where to turn to his subject in the tables, by first consulting the index he may be sent to other allied subjects, where he will find valuable matter which he would otherwise overlook.

Full explanations. Detailed illustrations and rules for the many applications of this system and full explanations of its mnemonic and other important features will be found in the introduction.

INTRODUCTION

[The simplified spellings used are strongly recommended for general adoption by both the American and English Philological Associations, including nearly all prominent scholars in English now living.]

Origin and growth.—The plan of the following Classification and Index was developed early in 1873. It was the result of several months' study of library economy as found in some hundreds of books and pamphlets, and in over 50 personal visits to libraries. In this study the author became convinced that the usefulness of these libraries might be greatly increased without added expenditure. Only a fraction of the good possible could be gotten from a library without catalogs, indexes, and aids, to tell librarians and readers what the collection contained on any given subject; yet, by the methods then used, this could be done satisfactorily only at a cost so great as to be prohibitive to all but a few wealthy libraries. With rare exceptions, libraries were growing rapidly. Catalogs, made at great cost, became antiquated soon after being finished. The methods used involved frequent remarking and re-arrangement of the books and remaking of catalogs and indexes, as the only escape from a confusion that seriously crippled usefulness. In this repetition of work experience and skill of previous librarians were largely lost. The great need was a system which should enable each librarian to stand on the shoulders of his predecessors, and fully utilize their labors; which should make the work done to-day permanent, instead of something to be superseded within a few years, and therefore not worth doing in the best way; which should supply the best appliances, instead of leaving the young librarian not only to learn how to work, but to make all his own tools.

Seventeen years' practical use of the system here explained proves that it will accomplish this result; for with its aid catalogs, shelf lists, indexes, and references, essential to this increased usefulness, can be made faster and cheaper than by any method not having its essential features, and, when done, are better and vastly more permanent.

Practical utility and economy are the keynotes of the entire system, and no theoretical refinement has been allowed to modify the scheme, if it would detract from its usefulness or add to its cost.

It was chiefly necessary to find a method that would index books and pamphlets on the shelves, the cards of a catalog, clippings and notes of scrap-books and index rerums, references to all these items, and indeed any literary material in any form, as readily as an ordinary index guides

to the proper page of a bound book. This difficult problem has been solved by using no reference marks except the simplest symbols known to the human mind—the Arabic numerals—and by aiding their simplicity with many practical mnemonic devices.

The system has been found on trial equally valuable for cataloging and indexing, and for numbering and arranging books and pamphlets on the shelves. For notes on other uses, see p. 37.

When the first edition was published in 1876, 12 pages of tables containing the thousand sections were criticised as being altogether too elaborate for use even in a large library. As fast, however, as the Relativ Index with its remarkable powers became known, users asked for further subdivisions, and both tables and Index have steadily grown since it has been found so easy to gain the admitted great advantages of close classification, and yet avoid the old difficulties by means of the Relativ Index.

Extent of use.—The register of libraries which have actually adopted the system, though growing rapidly, is known to be very incomplete. Names are often added of libraries which have used the system for five or 10 years without our learning the fact. A careful registry is kept of the buyer of each classification printed, but we make no assumption that a library has adopted the system because it has ordered a copy of the book.

We print below a brief table showing the growth of the four editions. The nearest estimate possible gives from 200–300 libraries, besides a large number of private book owners and literary workers having the system in daily use.

Edition	Date	No. of pages				Copies printed
		Preface, etc.	Tables	Index	Total	
1	1876	12	12	18	42	1,000
2	1885	66	162	86	314	500
3	1888	4	227	185	416	500
4	1891	41	234	191	466	1,000

What is the system?—A Relativ Index¹ with a subject classification, so numbered or lettered that reference is compact, accurate, and quickly made, is the essential feature, and anything beyond this is merely the application of this plan with various helps and accessories.

¹The author is interested only in the usefulness of the system, not in questions of priority of its invention, extended investigation by others fails to show that this most important feature of the system—the relativ index, on which all else hinges—had ever before been used as here to index by a single reference the most diverse material. The relativ location had been used, but not in the present combination with the subject index, which gives it most of its value. The tables of classification, while adopting suggestions from many sources, are original in their system of arrangement and notation, and in many minor features. The decimal form and many mnemonic features of the system have not been found in earlier use, tho since their invention in 1873, this as well as the subject index and other features have been very frequently copied, often with, but oftener without, acknowledgment of their source. But the author is glad to find this system, which has cost him so much labor, doing good service even for those who neglect to mention where they found so valuable a labor-saving literary tool.

Any subject classification with a *relativ* index in which the one entry indexes a book in the ordinary way, and at the same time indexes shelves, cards, clippings, or any other literary material, is a form of this system.

Decimal form of the system.—The author has devised and experimented with several different plans of classification and notation by means of numbers, letters, and combined numbers and letters, with bases of 26, 35, (the latter accepted by Mr Cutter and now most admirably worked out in his Boston Athenæum classification), 50, 100, and 150, yet none have seemed good enough to warrant fully working out and publishing details, except that here printed, based on Arabic numerals used decimally. The wide adoption of this system is largely due to the fact that no one ever complains that a classification is too simple, while there is great danger of the complaint of complexity. The simplicity of the decimal form has so commended itself that many think of it as the only form, tho obviously it would be just as much the “relativ index system” if the classification were wholly marked by letters.

The Subject Index is the simplest application of the symbols next in simplicity to 1, 2, 3; viz. a, b, c. This use of the simplest two sets of symbols known, with their common meanings, has given the system its reputation as the simplest yet proposed.

Best known decimal form.—The decimal form means simply that the heads are grouped and numbered with the common arithmetical figures used decimally. As the system here printed is the only decimal form that has thus far been carefully elaborated and published, it is commonly thought and spoken of as if it alone were the only possible form of the author’s original plan; tho obviously an infinite variety of “relativ index systems” in decimal form could be made by filling the outline with different heads, or with the same heads in different order.

To make out a new set of heads would involve labor and cost vastly beyond the dreams of any person who has not tried exactly this work. The time actually spent on the tables as here printed, by various competent workers, would aggregate several years and cost thousands of dollars. The uniform and urgent advice of the experienced is to adopt a poorer scheme already made rather than undertake so herculean a labor. When done, the maker may possibly be better suited with it, but it is doubtful if many others will be. It is vastly wiser for any man whose time is of value, to use it in something more practically useful to himself and his library than in trying to construct a “satisfactory” scheme of classification. No one yet ever wholly suited himself or any one else, and probably no one ever will. By adopting this scheme already worked out he saves much time and money, gains the immense advantage of using a system in common with hundreds of

others, so that he may utilize their labors and investigations and share with them the economies of coöperation.

Relativ Subject Index.—The alphabetical Index, the most important feature of the system, is as complete as could be made by combining the headings of leading catalogs and bibliographies, and adding such as users of the system have found desirable in 17 years' experience. After all these efforts, new headings will still be needed, and will be added in each new edition.

The Index is designed to guide both in numbering and in finding books. In assigning numbers, the most specific head that will contain the book having been determined, reference to that head in the Index gives the class number which should be assigned. Conversely, in finding books on any given subject, reference to the Index gives the number under which they are to be sought on the shelves, in the shelf list, or in the subject catalog. Whenever a new subject comes up, it and its synonyms, with the class-number decided on, should be interlined in the Index, so that the classifier may be uniform with himself in future work.

The Index aims to give similar or synonymous words, and the same words in different connections, so that any person of intelligence will hardly fail to get the right number. A reader wishing to know something of the tariff looks under T, and, at a glance, finds 337 as its class-number. This guides him to the shelves, to all the books and pamphlets, to the shelf catalog, to the subject catalog on cards, to the index of books charged at the loan desk, and, in short, in simple numerical order, throughout the whole library to anything bearing on his subject. If he turns to the tables, he will see that it means class 3, Sociology; division 3, Political economy; section 7, Protection and free trade; but the number alone is enough to classify the book or to find it, for either cataloger or reader. If he had looked under P for protection, or F for free trade, or D for duties, or C for customs, or under any other leading word relating to his subject, he would have been referred to 337, or some one of its sub-divisions.

Had he looked for "railroad" he would have found after it 16 separate entries, each preceded by a catchword indicating the phase of the subject in the scheme. A book on railroads may be a treatise on the desirability of government ownership, control, etc., and then is clearly a question of social science; or it may be a practical hand-book for an employe, explaining business methods of railroading, running trains, handling freight, etc., when it is as clearly one of the useful arts. The cataloger knows to which of these heads his book belongs, and the reader knows in which of its phases he wishes to examine the subject. Moreover, the 3 and 6 beginning the numbers indicate clearly the character of each class. But even if the significance of these figures were entirely disregarded, no confusion would result, for, on consulting either of the numbers in the catalog, in the scheme, or on the shelves the difference would be clearly seen.

RELATIV SUBJECT INDEX

In other cases, it is more useful to keep the books on the same subject together, tho treated from different standpoints. A glance at the Index tells either reader or classifier which plan has been adopted for each case.

All topics printed in black-face type in the Index are further divided in the tables, where one may see the subheads. This saves reprinting all these subdivisions which would increase the bulk of the Index many-fold; e. g. if one having a book on "prison labor" looks in the Index for "Convict labor" or "Prison contracts," he finds at once its special number 331.5; but if, on the other hand, he thinks to look only for the general subject "Labor," he finds in black-face type the entry "Labor, political economy, 331," and turning to the tables he finds under 331 the subdivision "331.5, Convict labor," the exact topic in hand.

The greatest objection to a class catalog has always been the impossibility of knowing just where to put a book in cataloging, and just where to look for it when it is again wanted. Different librarians, or the same librarian at different times, class the same or similar books in widely different places. Where one man did all the work, and held his place for a long series of years, there was a certain degree of uniformity; but even then there was danger of looking at the same book from different standpoints, thus causing confusion. When the daily press is full of one phase of a subject, the tendency is strong to class all books on this particular subject from the current point of view; and next year, if a different side of this same subject is again before the public, there is the same tendency to class books from the new point of view, in this way separating books on the same and putting together books on different phases. But, fortunately, practical usefulness does not require that the ideas of this one or that one be followed, but only that books of the same character be always put in the same place, and that there be some means of knowing readily where that place is. The Relativ Index, with its catchwords, was designed and is found in use to meet both these requirements, for it insures that books on the same phase of any subject coming before the classifiers shall be assigned to the same place, and that any reader seeking these books shall be referred to that place. If this is done, all requirements of a good classification are filled. If it is not done, the system is a failure; for the only real test of any scheme is its helpfulness to workers in the library.

Some prominent opponents of class catalogs admit that the Relativ Subject Index, in deciding where to class a book at first, and where to look for it ever afterwards, has removed their strongest objections. Certainly it would be impossible to make an Index more compact or more easy of reference.

This Index allows a great portion of the work of classification to be

done in advance by experts, thus securing, at the merest fraction of the usual cost, better and more uniform results than would be possible to the ordinary cataloger, and reducing the labor of classing a library to much narrower limits than ever before.

Each of these thousands of subjects has been carefully assigned its number, many of them after long consideration and consultation with specialists. No individual is sufficiently learned to class wisely books on all subjects and sciences; but botanists can assign all botanical subjects to the right number, mathematicians all mathematical topics, and thus the Index will in time become as accurate as the best scholarship of the day can make it. Even if the decision reached were not the wisest possible, all practical purposes are served, because, as each cataloger copies the number from the same index, all books on that subject will be placed together; and, as each reader gets his number from this same Index, he will go directly to the books he seeks.

What the Relativ Index includes.—Most names of countries, towns, animals, plants, etc. have been omitted, the Index containing only those which are in the tables; e. g. it cannot enumerate all the species of trilobites, but when the classifier has found from the proper reference books that *Remopleurides* is a trilobite, the index will send him to 565.39, and he can classify his monograph on that subject.

Tables.—The essential complement of the Subject Index is the tables of classification, so mapped out as to show in four ways—viz., by size of type, face of type, indentation, and number of figures prefix—the rank of each subject in the classification.

The field of knowledge is divided into nine main classes, numbered by the digits 1 to 9. Cyclopedias, periodicals, etc., so general in character as to belong to *none* of these classes, are marked *nought*, and form a tenth class; e. g. class 1 is the library of Philosophy; class 5 is the library of Science; class 9, of History, etc. These special classes or libraries are then considered independently, and each one is separated again into nine special divisions of the main subject, numbered from 1 to 9, as were the classes, general works belonging to *no* division having *nought* in place of the division number. Thus 59 is the ninth division (Zoölogy) of the fifth class (Science). A third division is then made by separating each of these divisions into 10 sections, numbered in the same way with 0 and the nine digits; and this decimal subdivision is repeated, till it secures as many subsections as may be needed in any topic. Thus 513 is the third section (Geometry) of the first division (Mathematics) of the fifth class (Natural science). This number, giving class, division, section and sub-section, if any, is called the classification or the class number, and is applied to every book and pamphlet belonging to the library. All geometries are thus numbered 513, all mineralogies 549, and so throughout the library all books on any given subject bear the number of that subject in the scheme.

Where 0 occurs in a class number, it has its normal zero value. Thus a book numbered 510 is class 5, division 1, but *no* section; i. e. the book treats of division 51 (Mathematics) in general, and is limited to no one section, as is geometry, markt 513; 500 indicates a treatise on science in general, limited to no division. A naught occurring in the first place would in the same way show that the book is limited to no class; e. g. a general cyclopedia which treats of all nine classes.

Choice and arrangement of heads.—The selection and arrangement of the many thousand heads of the classification cannot be explained in detail for want of space. In all the work, philosophical theory and accuracy have been made to yield to practical usefulness. The impossibility of making a satisfactory classification of all knowledge as preservd in books, has been appreciated from the first, and theoretical harmony and exactness have been repeatedly sacrificed to practical requirements.

Sequence of allied subjects.—Wherever practicable, heads have been so arranged that each subject is preceded and followd by the most nearly allied subjects, and thus added convenience is secured both in catalogs and on shelves; e. g. Building (690) follows Mechanic trades (680) at the end of Useful arts, and Architecture follows at the beginning of Fine arts.

The student of Biology (570) finds fossil life or Paleontology (560) before, and vegetable life or Botany (580) after, this followd in turn by animal life or Zoölogy (590), ending with Mammals (599); while Useful arts (600) begin with human Anatomy (611) under Medicine, thus giving a regular growth from the fossil plant thru the vegetable and animal kingdoms to the living man.

Co-ordination.—Theoretically, the division of every subject into just 10 heads is absurd. Practically, it is desirable that classification be as minute as possible, without use of added figures; and the decimal principle, on which our scheme hinges, allows 10 divisions as readily as a less number.

This principle has proved wholly satisfactory in practice, tho apparently destroying proper co-ordination in some places. The difficulty in such cases is entirely obviated by the use of another figure, giving nine sub-sections to any subject of sufficient importance to warrant closer classification. In history, where classification is made chiefly by countries, a single figure is added, as in the other classes, to give a tenfold geographical division, and a zero followd by another figure is added to give a division into periods.

As all history is by countries, and as minute geographical subdivisions are needed for travels, guide books, and various other uses, the rule is adopted always to use 0 before the time or period figure. The 0 shows that there is no farther geographic division in that number, and that a period division is there introduced. This allows the use of

the same period division in various places, e. g. 942.05 England in time of the Tudors ; 942.905 Wales under the Tudors ; 942.7405 Yorkshire under the Tudors. As each figure added gives a tenfold division, any desired degree of minuteness may be secured in classing special subjects.

As in every scheme, many minor subjects are under general heads to which they do not strictly belong. In some cases, these heads are printed in a distinct type ; e. g. 429 Anglo-Saxon, under English philology. The rule has been to assign these subjects to the most nearly allied heads, or where it was thought they would be most useful. The only alternative was to omit them altogether. If any such omission occurs, it will be supplied as soon as discovered, the intention being to provide a place in the tables for every known topic.

New subjects.—When any new topic arises, it is always closely related to some existing heads. If there be no blank space left for it, it is combined with the head nearest allied, and, if desired, by adding a decimal place abundant room is made for the new comer. The system is thus capable of unlimited expansion, and can never break down for lack of room for growth.

Catch-titles.—In naming headings, strict accuracy has often been sacrificed to brevity, for short familiar titles seemd more important than that the names given should express with fulness and exactness the character of all books catalogd under them. Many subjects, apparently omitted, will be found in the Index, assignd, with allied subjects, to a head which bears the name of the most important only. Reference to this Subject Index will decide at once many doubtful points.

Form distinctions.—The classification is mainly by *subject* or *content* regardless of form ; but an additional form distinction for general treatises is found practically useful.

Thus, in Science there are many compends, dictionaries, essays, periodicals, and societies, treating of Science in general, and so having 0 for the division figure, but treating it under different forms, and, therefore, divided into sections according to this form : 501 for philosophy or theories of Science, 502 for compends, 503 for dictionaries. This treatment is as nearly as practicable uniform in all classes. Creasy's "Fifteen decisive battles" is 904, the first figure being 9, because the book is clearly history ; the second figure 0, because limited to no division of class 9 ; and the third figure 4, because the book is a collection of essays.

These form distinctions are introduced at the beginning of the class because the number of general works is large, and these first numerals would otherwise be unused. They apply only to general treatises, which, without them, would have a class number ending in two naughts.

This form distinction is often used to subdivide general works on

divisions or even sections; e. g. under 510, works on mathematics in general are divided by form into 510.3, dictionaries of mathematics; 510.4, essays; 510.5, periodicals, etc., just as works on Science in general were divided. A dictionary of mathematics is 510.3, not 503, because every book belongs to the most specific head that will contain it; so 503 is limited to dictionaries or cyclopedias of science in general. Books treating of many subjects, such as general cyclopedias or periodicals, go in class 0, and are then divided by form into cyclopedias, periodicals, or societies.

Form divisions always have the same set of numbers, preceded by 0, viz.: 1, philosophy, theories, etc.; 2, compends, outlines; 3, dictionaries, cyclopedias; 4, essays, lectures, letters, etc.; 5, periodicals, magazines, etc.; 6, societies, associations, transactions, reports, etc.; 7, education, study, teaching, training, etc.; 8, polygraphy, collections, etc.; 9, history. Thus a periodical on any subject has the subject number followed by 05; e. g. a periodical on public health, 614.05.

But if the number already ends in 0, 0 is not repeated before form-division figures; e. g. a zoölogical magazine is 590.5, not 590.05.

Minute classification.—On first publication in 1876, a common criticism was that 1,000 heads could never be successfully used, however desirable so close classification might be. As soon, however, as actual experience proved it as easy to use 1,000 heads in the new system as 100 in the old, the obviously great practical value of close classification led one user after another strongly to urge the publication of subdivisions. This is now done in such a way that one may use the whole or any part of the sub-sections and ignore the rest without difficulty or confusion, thus allowing each to use minute subdivisions where he wishes or needs them, without being forced into refinements in subjects where he has few books or little interest. The first three figures only may be used as before, and the rest show the scope of the subject. On many topics minute sub-sections are printed simply for this purpose, and for use in indexing periodicals, transactions of societies, and in keeping notes.

The advantage of close classification is unquestioned, if the user knows just what it is. With this plan it is not only practicable, but comparatively easy. If there are only 10 books on a given topic, it is useful to have them in groups among themselves, for otherwise they would have only accidental order, which is of service to no one. A reader wishing a specific book should go, not to the shelves, but to the Author-and-title catalog, where he can find its place quickest. If he wishes a specific subject, he is sent instantly to the exact place by the Subject-Index. If he wishes to study the library's resources at the shelves, he will be *greatly helped by the most minute classing*. A teacher showing his pupil the material on any subject, if there are only 20 books, would surely put together those covering the same points, if

there are even two. Much more should librarians group closely their greater collections, that readers may gain something of the advantages of an experienced guide.

Thus every specialist has his own special library. If a student of science in general, he is sent to class 5; if his department be zoölogy, his library is 59; if his specialty is shells, he finds all works and references on that subject in library 594. Whether a specialist needs it or not, every subject being a library by itself, shows resources and wants as no catalog can show them. A catalog cannot be made to take satisfactorily the place of handling books themselves. This advantage weighs most in a college or society library, where many go to the shelves; but even if librarians only are admitted, close classification is worth its cost in the added power it gives.

Mnemonics.—Arrangement of heads has been sometimes modified to secure mnemonic aid in numbering and finding books without the Index; thus China has always the number 1. In Ancient History, it has the first section, 931; in Modern History, under Asia, it has 951. Similarly the Indian number is 4; Egyptian, 2; English, 2; German, 3; French, 4; Italian, 5; Spanish, 6; European, 4; Asian, 5; African, 6; North American, 7; South American, 8; and so for all divisions by languages or countries. Italian 5, for instance, is in 035, 055, 065, 450, 850, 945, and many others. This mnemonic principle is specially prominent in Philology and Literature, and their divisions, and in *form* distinctions used in the first nine sections of each class. Philosophy, methods, or theory occurring as a head is always 1; dictionaries and cyclopedias, 3; essays, 4; periodicals, 5; associations, institutions, and societies, 6; education, 7; polygraphy or collections, 8; history, 9. In numerous cases several minor heads are grouped together as Other, always numbered 9.

While Italian is always 5, 5 is by no means always Italian. Grammar is 5, Periodicals are 5, Asia is 5, Oratory is 5, etc. Even were it possible, to limit 5 to Italian would waste numbering material, and results would not justify cost. The purpose is to give practical aid, not to follow a fanciful theory. A cataloger marking a German grammar, remembers that all Philology begins with 4, and, as German is always 3 and grammar 5, he knows the number must be 435. Italian (5), poetry (1), is as plainly 851 with no danger of being mistaken for "poetry of grammar" or "theory of Asia," because the numbers also have that meaning. This feature is an *aid*, not the regular method, and in all doubtful cases one refers at once to index or tables. Suggested difficulties are usually creations of ingenious theorists and not an outgrowth of practical experience in using this plan.

Wherever practicable, this mnemonic principle is used in subdividing sections. 558, Geology of South America, is subdivided by adding the *sections* of 980, History of South America. Geology of Brazil then

must be 558.1: mnemonically, the first 5 is the Science number; second 5, Geology; 8, South America; and 1, Brazil. Any library attendant or regular user of the scheme recognizes at a glance 558.1 as Geology of Brazil. This mnemonic feature occurs in several hundred places in the classification, and is of great practical utility in numbering and finding books without catalog or index, and in determining the character of any book simply from its call number. The extent of its use is shown in the four tables appended to the main Index, giving alphabetical lists of (1) subjects, with class number of each, which may be subdivided geographically; (2) form divisions, with the figures to be added in making such division; (3) languages, with their class numbers, which may be further subdivided philologically by adding the figures given in Index table 4; (4) philological divisions, with the figures to be added in subdividing any language in Index table 3.

As in close subdivision, the wish for mnemonic correspondence has never outweighed any claim of greater usefulness. In many cases choice between numbers was hardly perceptible, e. g. : whether in philology the order should be French, Spanish, Italian, or French, Italian, Spanish. In such cases mnemonic numbers were given preference, and 17 years has proved this wisest. Great gain, beside ease of remembering, results from this uniform use of the same numbers with the same meaning whenever a similar division is made. Wherever a division by languages or countries is made, it follows philology or history numbers, and in the tables, the note "Divided like 900" fully takes the place of reprinting all the history subdivisions. This saving justifies use of these numbers in some cases, even where a somewhat different order might seem more nearly fitted to the special case; e. g. in 342 an order which would put the constitutional history of Canada (342.71) and Australia (342.94) next that of England (342.42) would be better adapted to the special case than the actual order which separates them both from England and each other. Still by following the usual "procrustean" numbers, many topics can be subdivided minutely without further study, by simply applying the History or Language subdivisions. A single illustration of the astonishing power this principle gives will suffice, tho there are thousands that might be given: 016 is "Bibliography of special subjects, divided like the regular classification," therefore by aid of the tables under 581, 016.581974742 readily translates itself to users of the system into "Bibliography of the flora of Albany co., N. Y." While these 12 figures might never be used, if a specialist wishes minute division, it is ready to his hand, conforms to the Index, and will be clearly understood by any one familiar with the plan. A specialist in such cases would probably adopt a contraction for his long number, and use in full only the minute divisions. See p. 35 for such contractions.

Decimalism.—We have not sacrificed utility in order to force sub-

jects on the decimal procrustean bed. *Decimals have been used as servants, not as masters.* When subjects have been combined or separated into just 10 heads, it has been from no necessity of the scheme, but because it seemed the most useful way, all things considered. In many cases there were at first only three to seven heads instead of 10; but usually, during three years of testing before first publication, it was found useful to divide some of these heads, and, as it took no added space or labor, there was no objection to it. On the other hand, there were cases where more than 10 heads seemed more natural; and, as any number up to 100 is provided for by adding one decimal place, this was done in most cases. As only 1000 sections were first printed, it was often necessary to put two or more closely allied topics together under the same number, as must still be done whenever a library limits the number of figures used to three; but during the 14 years that the system has been in print, subdivisions have multiplied, till now every important topic has its own special number. The scheme gives us for each topic, as it were, a case of nine pigeon-holes, with a large space at the top; and we use them as every practical business man uses such pigeon-holes about his desk. If, as in 220, there are less than nine main topics, it is often convenient to use the extra spaces for subdivisions. Thus we keep separate, under the Old Testament, the historical, poetical, and prophetic books; and under the New Testament, the gospels, epistles, and apocalypse. The spaces are there, and it is convenient to use them,—a reason that experience proves a good answer to the charge of lack of coordination, the indention and type in the tables make that charge baseless. Then in 280, having more than nine topics,—if we are using only three figures,—we put Congregational in the same space with Presbyterian, and all the little denominations together in the last box, just as the business man puts his papers in his pigeon-holes. If he insisted on having a different case made to order for each use, it would cost over twice as much; he could not group them together or interchange them, and they would not fit the shelves of his office as now.

There has been a perverse misapprehension of this feature, and critics oftenest stumble over "procrustean 10." In fact, this is an element of usefulness. A railroad also has the fault that it is procrustean in its path and in its times. It cannot come to your door nor wait your convenience, as did the stage-coach or carriage; it cannot go to the fields for its loads of produce; it cannot turn out for obstacles; and it is simply because it is procrustean that it can do its work so much better and quicker and cheaper. The parallel could be fairly extended to many other cases, but any thoughtful mind will recognize that the economy and ease of working the Decimal system are dependent on its being procrustean. Without it we should lose the great simplicity of the Relativ Index, many mnemonic correspondences, and the useful

o to indicate form and period divisions. Our intersecting lines of space and time in History, etc., of language and form in Literature and Philology, and scores of similar advantages, depend wholly on procrustean 10, or else on some other number equally procrustean, but lacking the advantages of exact correspondence to our arithmetic.

Relativ location.—Economy and simplicity called not only for the Subject Index, but also for some plan of consolidating the two sets of marks heretofore used; the one telling of what subject a book treats, the other where the book was shelvd. By relativ location and decimal class numbers we have made our simple Arabic numbers tell of each book and pamphlet, both *what* it is, and *where* it is.

In arranging books on the shelves, absolute location by shelf and book number is wholly abandoned, relativ location by class and book number being one of the most valuable features of the plan. Accompanying the class number is the book number, which prevents confusion of different books on the same subject.¹ In finding books, the printed numbers on the backs are followed, the upper being the class and the lower the book number. The class is found in its numerical order among the classes, just as the shelf is found in the ordinary system. Shelves are not numbered, as increase of different departments, opening of new rooms, and any arrangement of classes to bring books most circulated nearest the delivery desk, will at different times bring different class numbers on any given shelf. New books, as received, are numbered and put in place, in the same way that new titles are added to the card catalog.

Thus all the books on any given subject are found standing together, and no additions or changes ever separate them. Not only are all the books on the subject sought found together, but the most nearly allied subjects precede and follow, they in turn being preceded and followed by other allied subjects as far as practicable. Readers not having access to the shelves find short titles arranged in the same order in the shelf list, and full titles, imprints, subject and cross references, notes, etc., in the subject catalog.

Parts of sets, and books on the same or allied subjects, are never separated as they are sure to be, sooner or later, in every library arranged on the common plan, unless it be frequently re-arranged and recatalogd. The great expense of this makes it impracticable except for a few wealthy libraries. In this system both class and book numbers remain unchanged thru all changes of shelving, buildings, or arrangement.

Among hundreds of points raised by librarians as to its practical workings and usefulness, the only one in which it was not shown to be equal or superior to the old systems was that in this relativ location a

¹For suggestions regarding forms of book numbers best used with this scheme of classification, see p. 30.

book which this year stands, e. g. at the end of a certain shelf, may not be on that shelf at all another year, because of uneven growth of the parts of the library. This slight objection, however, inheres in any system where books are arranged by subjects, rather than by shelves, windows, doors, and similar non-intellectual distinctions.

Sizes on shelves.—Most libraries have abandoned close distinction of sizes. It is true that this distinction saves a little space, but at far too great a cost; for every distinction of sizes makes a parallel classification. If books are grouped in five sizes, one must look in five places before he can be sure of having seen all the books.

It is better to shelve octavos and all smaller books together in one series, and arrange in parallel libraries only quartos and folios, which are too large to stand on the regular shelves, showing the series in which any oversize book is put by a size letter prefix to the book number; e. g. 749 qA, to show that book A on Artistic furniture is too large for the regular shelves, and so is placed in the q or quarto series. Another way is to use a wood or pasteboard dummy, to show the location of a book not in its regular place. But, however solved, there is no conflict between the size problem and the Decimal Classification.

CATALOGS

Any system of catalogs may be used with this scheme. But the two essentials of even the simplest system are the author (or preferably name) catalog and the shelf list. The chief use of the system for catalogs is for the latter and for the class catalog on cards.

Name catalog.—In the name catalog on cards, arranged strictly by names of authors and of persons or places written about, the class number holds a subordinate place, yet is constantly useful. If printed, it appears in a single column as in the Relative Index, and, where there is no subject catalog, one can rapidly pick out the books on any desired topic by glancing down the column for the class number wanted.

Shelf list.—In the shelf list the class number is again highly important, as it makes of the list the most useful form of brief subject catalog. Each page gives in columns accession number, author's name, and brief title of every book in the library on the specific subject bearing that class number.

Subject catalog.—In the card catalog of subjects the classification is mapped out above the cards by projecting guides, making reference almost instantaneous. Subjects are arranged in the 1, 2, 3 order of their decimal subject numbers exactly as in the classification tables, and the cards of each subject are then further arranged alphabetically by authors.

The printed subject catalog on this plan is also the most compact and satisfactory in use. Under each class number are given the resources of the library on that subject, the heading giving for conven-

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ience the name as well as the number of the subject ; e. g. " 513 Geom-etry." General notes are printed in finer type under general heads, and an index at the end shows where to open the book to find any topic. As class numbers are put in place of page numbers, this index serves for any catalog, list or library arranged on this plan.

Dictionary catalog.—While it is as easy to use the dictionary catalog with this system as with any other, we find the common dictionary catalog inferior to the clast, for nearly all practical purposes. The dictionary plan, if used in a catalog, must give results very unsatisfactory to students, or else very expensiv to makers.

The failure of the dictionary catalog to meet the requirements of the scholar has been often pointed out. While it is far the best for an index, there still exists much of the same need of a good clast catalog as at the first. But the difficulties in the way both in making and using such a catalog have heretofore been so great that there has been a conviction among many practical librarians that notwithstanding its great advantages, the idea must be abandond as impracticable, while other eminent authorities have ably argued that the poorest clast catalog is better than one unclast, and that any use of such a catalog is in itself a lesson in bibliography. Now that the serious difficulties of making a good clast catalog have been so largely removed by the simple numbers and Relativ Index of the decimal plan, the merits of the clast over the more common dictionary system are becoming doubly prominent.

The Subject Index of this system is a skeleton dictionary catalog, covering everything not fully covered by the "name catalog." Instead of giving the book titles under each head, the number refers to all those titles simply and directly. The index may be made on any of the various dictionary plans, with all the advantages it may possess. To us the simplest seemd the best. We give only short headings with a brief indication in doubtful cases of the point of view taken in assigning the class number.

We therefore unite the advantages of the dictionary and clast catalogs, not by mingling them together, and so losing much of the simplicity of one and as much of the excellence of the other, but by really using both, each with its own merits. Only one set of titles is needed, for the class numbers make them available for both catalogs.

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Shelves.—The system on the shelves is the simplest form of relativ location. Many libraries have adopted it for shelf arrangement, where catalogs recently printed, or large investment in another plan, made it too expensiv to change anything else. The advantages here have been already mentiond under Relativ location, p. 19.

Shelf list.—By simply printing the shelf list at any time, a subject class list of the best kind is made for any topic on which there may be

present interest ; e. g. if a town contemplates a new water supply, interest is greatly stimulated, and everything about water-works is wanted. The librarian has only to open his shelf list to 628.1 and 352.6 and print it. This great advantage is gained with but slight variation from the form found best in its regular use as a shelf list for yearly examination of the shelves to detect losses and misplacements.

Accession book.— From the accession book, tables of the number of books added on each subject are readily made from the shelf mark columns. A glance at it shows the character, by subjects, of the books added during any given period, for, wherever this class number occurs, it tells not only where the book is shelved but also what it is about.

Pamphlets.— These class numbers applied to pamphlets have proved specially satisfactory. The number is written on the upper left corner, and the pamphlets are shelved in pamphlet cases side by side with books on the same subject, or they may be kept on special shelves divided every 10 cm. by perpendicular partitions. Little expense is incurred, and yet the entire pamphlet resources of the library on any subject can be produced almost instantly. The immense advantages of this plan over those in common use, both in economy and usefulness, will be appreciated by every librarian in charge of a pamphlet collection. A name or author catalog is made on slips if time allows. The pamphlets themselves are the best subject catalog. Uncataloged pamphlets treating of any subject bear the same class number, and are arranged on the shelves in a case immediately before or after the books of each section, or, if preferred, each pamphlet may be put in exact place as if bound.

The tendency grows to put all material under its class number on the regular shelves, for the same reasons that have led to giving up division by size of books. One examining a subject likes to see all the resources in one place so far as possible.

Sale duplicates.— The same arrangement is admirable here. They are so constantly changing that a catalog can hardly be afforded, and a subject arrangement on any other plan than this is difficult to maintain. Still, it is very essential that there be some means of knowing what duplicates there are on any given subject. By simply penciling the class number on the books and arranging them numerically, it is possible to give this information more quickly and more satisfactorily than by any other method, and at the same time with less expense.

Charging system.— Here as elsewhere it serves all ordinary purposes, with special advantages of its own. On the library accounts the character of each person's reading is clearly indicated by the numbers charged, and minutest statistics of circulation in any subject are made by simply counting the call slips in the register or check box, and entering the number against each class in the record. The whereabouts of any book wanted, or the amount of use of any subject, is seen at a glance. This decimal check box can be used in any system. Its

peculiar advantage with this classification is that it always exhibits, correct to the hour, a complete table of all books off the shelves in each subject. The slips in box 53 show just how many and what books are out in Physics; the slips under 823 show all the English novels in circulation, and who have them. Such a table of circulation always at hand, and without an item of expense or labor,—for the check box is necessary as a record of loans,—is highly prized by all interested in the character of books read, and at no time has so much wise attention been given to educating the taste of readers in our public libraries as at the present. To convert this table into permanent statistics involves only the trifling labor of recording as often as desired.

Subject references.—In no place are the peculiar advantages felt more than here. Many users of the system are undertaking analyses and cross references to an extent not hitherto thought practicable or hardly possible. These few figures tell as clearly as a long heading exactly what the reference is, while the gain in ease of use is even greater than the time and space saved in recording. The clearness and directness of the method aid wonderfully in this work. References to transactions, or chapters in essays, may be made in the most compact and usable form.

Recataloging.—When Amherst College in 1873 adopted the plan, and began to recatalog its library, it was found entirely practicable to make the change to the new system gradually, as means allowed, without interfering in any appreciable degree with the circulation of the books. The methods employed for thus changing without interrupting use must vary according to the different conditions of each case. The essential feature is some distinction between old and new call-numbers, sufficiently marked to be easily recognized by attendants. Since call-numbers ordinarily consist wholly of figures, the initial letter of the Cutter author-numbers furnishes this requisite. All numbers consisting of figures only are then recognized as belonging to the old, and all numbers containing a letter as belonging to the new system.

Adaptability.—The system is so flexible that it adapts itself to almost any circumstances. It may be used in almost any one of its applications without the others, and with a proportionate result. It may be applied to pamphlets alone, bringing order out of chaos, and solving this vexatious and vexing problem; or it may be used for the catalogs, leaving the arrangement on the shelves as before; or it may be applied to the shelves, while the catalog is on the dictionary or any other plan, and so on.

Arabic numerals.—Arabic numerals can be written and found quicker, and with less danger of confusion or mistake, than any other symbols. Therefore, Roman numerals, capitals and small letters, and similar symbols usually found in systems of classification, are entirely discarded, and by exclusive use of Arabic numerals throughout the shelves,

indexes, catalogs, and records, there is secured the greatest accuracy, economy, and convenience. This advantage is specially prominent in comparison with systems where the name of the author or the title must be written, in calling for or charging books and in making references.

Endowment of special departments.—Another great advantage of this plan is its peculiar adaptability to the plan of endowing special departments. One specially interested in any subject can often be induced to endow that subject with a sum, of which the income shall each year buy all the best books that appear on it.

If John Doe is specially interested in the opera, the library says to him: "Give us \$1000 as an endowment of 782, and we will call it the Doe Library of Dramatic Music. There will be found every book, pamphlet, newspaper clipping, or ms. that the library has or can get on this subject. Gifts from others will be placed in the Doe Library, the donor's name being given on the book-plate, and for generations to come every person interested in the opera will be grateful for your foundation." In this way 782 is assigned to John Doe, and his pride is stimulated in developing it. If another man with larger means and interest will endow the whole subject of music 780, there is no difficulty or impropriety in including 782, the Doe Dramatic Music Library as the second section of 780, the Roe Music Library.

This is one of the most promising fields for development, for almost every library has among its readers some specially interested, who if properly approacht would endow some topic, even if a small one, and this relativ location, with its definit number expressing just the ground coverd, may be of great service in working up this plan of special endowments.

Summary.—The claims of the system may be sumd up as follows: Compared with other systems it is less expensiv; more easily understood, rememberd, and used; practical rather than theoretical; brief and familiar in its nomenclature; best for arranging pamphlets, sale duplicates, and notes, and for indexing; susceptible of partial and gradual adoption without confusion; more convenient in keeping statistics and checks for books off the shelves; the most satisfactory adaptation of the card catalog principle to the shelves. It requires less space to shelve the books; uses simpler symbols and fewer of them; can be expanded, without limit and without confusion or waste of labor, in both catalogs and on shelves or in catalogs alone; checks more thuroly and conveniently against mistakes; admits more readily numerous cross references; is unchangeable in its call numbers, and so gives them in all places where needed, as given in no other system; in its index affords an answer to the greatest objection to clast catalogs, and is the first satisfactory union of the advantages of the clast and dictionary system.

SUGGESTIONS TO USERS

In referring to tables, hold the book in the right hand and turn with the left, then the class numbers show very plainly on the left margin and reference is greatly expedited. Some prefer to hold the book in the left hand, but in any case the eye should follow the left pages wholly.

PLAN OF BOOK

Tables.—The first page of tables shows the 10 classes into which all topics are divided. The next page, showing the nine divisions of each of the 10 classes, is a bird's-eye view of the whole scheme on a single page. Then follows a synoptic view of 10 pages, one for each class, showing the nine sections of each division of each class.

Following these synopses is the complete classification, which repeats in proper order classes, divisions, and sections, with all their subsections. For the convenience of the user, who thus gets a fuller and clearer idea of the field which each number covers, synonymous terms, examples, brief notes, dates, and various catch-words are often added to the main heads. Therefore all references to numbers **should be looked up in the full tables** of subsections, using the summaries when only a synoptic view is wanted.

Index.—Next is an alphabetical index of all the heads, referring by class number to the exact place of each in the preceding tables. This Index includes also, as far as found, all synonyms or alternative names for heads, and any other entries that seem likely to help a reader find his subject readily. Tho the user knows just where to turn to his subject in the tables, if he consults the Index, he may be sent also to other allied subjects, where he will find valuable matter which he might otherwise overlook.

Numeration.—In thinking or speaking of the class numbers, to avoid confusion always divide at the decimal point, and name it; e. g. read 942.27 "nine forty-two, point twenty-seven," never "ninety-four two twenty-seven." If "point" were omitted, the ear might readily interpret 270.2 (two seventy, two) as 272, while "two seventy, point two" can never be misunderstood.

USE OF TABLES AND INDEX

Familiarity with classification.—Get a general knowledge of the scheme by learning the 10 main classes [you will soon know the 100 divisions also without special study], so that you can tell to what subject a given number belongs from its first figure without referring to the tables. Specific knowledge of minute divisions will come gradually, but rapidly, from use. Using the tables alone, and then always verifying your result by the Index, you will more rapidly acquire knowledge of the classification and facility in its use. To do this, decide first to which of the 10 classes the subject belongs; next, take that class as if

there were no other, and decide to which of its 10 divisions the subject belongs; then, in the same way, select section and subsection, thus running down your topic in its grooves, which become tenfold narrower at each step. As a check against error, use the index freely, even tho familiar with the scheme.

Subject of a book.— To find out the subject of a book consult :—

1. **The title**, since it is generally chosen to show what the book is about. But as many titles are misleading, never class from title alone, but always examin also

2. **Table of contents**, which is the best guide to the true subject. If there is no table of contents read

3. **Headings of chapters**, or marginal topics.

4. **Preface.**— Unless already certain, glance thru this to catch the author's point of view, and verify impressions gaind from title and contents.

5. **Reference books.**— If preceding means fail, consult reliable bibliografies, clast and annotated catalogs, biografical dictionaries, histories of literature, cyclopedias, reviews, etc., for information about the character of the book.

6. **Subject-matter.**— If the five shorter methods above fail, examine the subject-matter of the book itself, and if still in doubt, to avoid mistakes, put aside on an "under consideration" shelf till you can examin more thuroly or consult

7. **Specialists.**— Experts, competent to define their true subject and relation, are usually glad to examin enough to class any new books in their departments. Old ones they know where to put already.

After deciding what the book is about, find this subject in the tables, either thru the Index or by using the tables directly, which for the beginner is a longer process, seldom to be trusted without subsequent reference to the Index; e. g. *Pollock's Land laws* might naturally be clast from the tables alone as "333, Land; ownership; rights; rent," which seems exactly to fit this book. The Index, however, shows two numbers, both referring to land laws, but from different points of view; viz. 347.2, legal, and 333, economic. The object of this book, as seen in the preface, is to give a popular presentation of English statutes pertaining to landholding, not to discuss the history and theory of land laws from the economist's point of view; and it should be clast "347.2, Realty," which might have been mist but for the Index.

Assigning class numbers.— 1. Practical usefulness is the chief thing. Put each book under the subject to the student of which it is most useful, unless local reasons "attract" it to a place still more useful in your library. See p. 27^o.

2. The *content* or the real subject of which a book treats, and not the *form* or the accidental wording of the title, determines its place.

Following this rule, put a philosophy of art with Art, not with Philosophy; a history of mathematics with Mathematics, not with History; for philosophy or history is simply the *form* which these books have taken. Their true content or subject is Art or Mathematics, and to the student of these subjects they are most useful.

3. Always remember that the question is not where one would probably look to find a particular book, but under what subject is the book of greatest value; e. g. it is of little consequence whether "one would be apt to look" under 595.1 for *Darwin's Formation of vegetable mould*, but of much consequence that one studying earth-worms should find that book in 595.1 Worms, since it is chiefly valuable as a study of the habits of earth-worms. Any one wanting that special book would look for it in the name catalog under Darwin.

4. Assign every book to the most specific head that will contain it. This will vary in different libraries according to the number of figures used, e. g. the specific head for "compulsory vaccination" is 614.4738; but in a library using only three figures, the most specific number possible is 614, which must take everything on Public health.

A library recently adopted the plan of putting all books of a division together, if they had but few; e. g. all mathematical works were marked 510. It took just as many figures, cost just as much labor in most cases, and, if a man wanted the one calculus in the whole library, he had to search through the 150 volumes in 510, when otherwise he would instantly have found it standing alone as 517. See also "Number of figures in class number," p. 287.

5. The predominant tendency or obvious purpose of a book usually decides its class number at once. Still a book often treats of two or more different subjects. In such cases assign it to the place where it will be most useful, and make references under all subordinate subjects. Give these reference numbers both on book plate and subject card, as well as on reference cards.

It is one of the marked advantages of the plan that these references, notes, etc., may be added from time to time as found convenient. It is necessary at first to find only the predominant tendency of the book in order to classify it. Subject references are added whenever found necessary.

Add these numbers indicating more closely the character of the book as rapidly as possible, and invite all specialists to call the librarian's attention to every desirable subject reference noticed in their reading. These numbers take little room, are easily added, and in most cases are very valuable.

6. If two subjects have distinct page limitations, class under the first, and make analytic reference under the second. But if the second is decidedly more important or much greater in bulk, class under that,

with reference under the first. Always put a book under the first subject, unless there is good reason for entering it under another.

7. Consider not only the scope and tendency of each book, but also the nature and specialties of each library.

Any subject of which a library makes a specialty naturally "attracts" allied subjects. This influence is strongest in minute classification. To admit this variation, many subjects in the present scheme have two or more places, according to these different sides; e. g. a book on "school hygiene," which a medical library puts under 613, has also a place in 371.7, where the educational specialist requires it.

8. If a book treats of a majority of the sections of any division, give it the division number, instead of the most important section number with subject references. Unless some one section is so prominently treated as to warrant placing the book in it, class a book on four or more sections under the division number; e. g. class a volume on light, heat, and sound, under the head most fully discussed, and refer to it from the others; but if it treats also of mechanics, hydrostatics, and pneumatics, class as 530, or general physics, tho no mention be made of electricity, magnetism, or molecular physics.

9. To secure uniformity, make for future reference full notes of all difficulties and decisions; for it is of more importance to put books on the same subject together than to put them in the absolutely correct place.

These notes should be written either on the broad margins of the classification tables, or on an interleaved copy, or on P slips arranged by class numbers, like the class catalog.

10. Keep collected works, libraries, etc., together, and assign like individual books to the most specific head that will contain them; or assign to the most prominent of the various subjects on which they treat, with subject references from the others; or separate and class the parts as independent works.

This last practice constantly grows in favor, and many librarians now largely disregard uniform bindings and "series" lettering, and, unless contents of volumes are so connected that they cannot be separated, class each under the most specific head that will contain it.

11. Class translations, reviews, keys, analyses, answers, and other books about specific books with the original book, as being there most useful.

Number of figures used in class number.—Decide this according to circumstances in each library. Small libraries often use the minute subsections beyond three figures only in certain divisions like Travel, 913-919 (where a closer geographical division is needed) and where a fourth figure is necessary in 400 and 800 to separate different languages.

In very small collections two figures might do till growth required further division; but it is economy, and saves handling the books a

BUILDING NUMBERS

second time to use at least three figures at first, even in the smallest collection. In larger or rapidly growing libraries all subdivisions may be used for the same reason, tho the number of books may not at the time seem to justify it. Whether there are one or 1,000 books on any topic, they take no more space on the shelves if class minutely, and the work is done once for all. When large accessions come, even if a century later, this number will not have to be altered. A library having but 20 books on Education might think it unwise to use the full scheme, but the whole 20 would go on a single shelf, and take no more room, and the Index would refer more accurately to what was wanted. The number of books you have on any subject has in this system no special weight. In a relativ location, any number of consecutive topics without a book waste no space on shelves or in catalogs. The numbers are merely skipped. This plan not only does no harm, but has the considerable negative value that looking for the number and finding it blank or skipped, shows that you have nothing on the subject, — a piece of information second in value only to finding something, for one need no longer search.

The practical objection to close classing is that it gives a longer number to charge in a lending library. In a reference library full subsections should be used. Where a short number is imperative, it is well to give the full class number on another part of the book plate, not to be used in charging, but as a guide to the contents of the book. Thus when the classifier has once examined a book, and found out just what it is about, the record is preserved for the benefit of others.

BUILDING NUMBERS

Geographical divisions.—In dividing by countries according to the note "Divided like 930-99," found so often in the tables, add only the number following initial 9, for this 9 means not locality but simply class 9, History; e. g. 942, history of England, analyzed is 9, history, 42, England (4 Europe, 2 England). If geology of England is wanted, add to 55 (the number for geology) 42 (the number for England), and you have 55.42. History of N. Y. state is 974.7, of which 747 is the locality number, and the number for N. Y. state administration, 353.9747, is built up by adding to 353.9 (the number for State administration) 747 (the number for N. Y. state).

Language and literature.—In 890, where the direction is to "divide like 490," note that 890, Minor literatures, and 490, Minor languages, correspond exactly, so that only the figures following 49 are to be added to 89 to build a minor literature number; e. g. Polish language is 491.85; adding 185 to 89, Minor literatures, gives 891.85 Polish literature. In brief, to form literature from philology numbers substitute 8

in place of the first figure 4; e. g. Sanskrit language 491.2, Sanskrit literature 891.2.

If the direction is to "divide like the main classification," as in 016, the number for the required subject is added exactly as it stands in the tables; e. g. bibliography of Polish poetry, 016.891851.

Combining numbers in a way not printed in the tables must be done with great care or confusion results. Many users, fascinated with the possibilities of the system, make combinations more ingenious than useful; e. g. "the horse's foot and how to shoe it" was recently marked 636.1682, i. e. the blacksmithing number, 682, being added to the horse number, 636.1, making a very long, useless number. Horse-shoeing is now added to the tables as 682.1. Often it seems well to the classifier to add a figure to show some distinction. It is short and desirable, but later he may find he has shut himself off from using some other division which he would greatly prefer. Every added figure must be clearly written in the tables and index, for no man's memory can be trusted. See 9, p. 28; and Cautions, p. 31.

BOOK NUMBERS

Author numbers.—The invention of translation systems by which a name is represented by its initial with the rest translated into numbers, — e. g. Freeman, F 87,—has led most libraries to arrange books under each class number alphabetically by authors, or in local history by towns, or in biography by biographers. This keeps all works by the same author together, and in large classes enables one to find any book readily without consulting catalogs. One great advantage is that the same author has the same book number in every subject; i. e. the figures are significant like our class numbers, and translate themselves into the name. Great practical mnemonic convenience results from this peculiar form of book number. By far the most widely used of these translation systems is that of the Boston Athenæum, devised by the librarian, C. A. Cutter, and known as the Cutter numbers.

Time numbers.—A second arrangement of books under class numbers is chronological by dates of first publication. Its advantage is in presenting the historical development of the subject, the book written earliest being on the left, the latest work on the right, and then of any given book it is evident that all those on the left were written before it, all those on the right after it. In science this has special value, while in literature the author arrangement is better. A translation system of dates devised by W. S. Biscoe, makes the numbering of the year more compact and satisfactory than to write the date in full.¹

¹For full explanations and table of Biscoe numbers see p. 934-935

Accession order.— A third arrangement,— simpler but otherwise less desirable — is in order of accession ; the first book in a class being 1, the second 2, the third 3.

It is entirely practicable to use two or even all three of these methods at the same time in the same library, one peculiarity of the system being the ease with which it may be adapted to almost any special circumstances. In fact, we use the chronological system in science where its advantages are most markt ; the alphabetical system in literature where authors' names outrank dates ; the old accession-order plan in special collections, which must be kept separate, and are no longer added to, since here the extreme simplicity of the 1, 2, 3 order is secured without any sacrifice. It is still better, if this last method is used, to number A, B, C, instead of 1, 2, 3, as 26 instead of nine books may be markt with one character, and chiefly, as it is highly desirable that each book number should begin with a letter which cannot be mistaken for the end of a class number, if the two are written on one line ; e. g. the first book under 513, if numberd 1, might be so written as to confuse with subsection 513.1, but 513A could not be misinterpreted. If figures are used, care must be taken to write them as a fraction or with a mark of separation ; e. g. $5\frac{13}{1}$ or 513-1.

VARIATIONS PRACTICABLE IN ADJUSTING TO SPECIAL LOCAL REQUIREMENTS

Some users assume that adoption of the Decimal Classification and Relativ Index carries with it other parts of the system which the author has used at Amherst, Wellesley, or Columbia colleges or in the New York State Library. In fact, the plan in each of these libraries differs somewhat from all the others, and many of the 200 public and private libraries now using the plan have adopted still other variations ; for the special constituency, circumstances, and resources of each library must be considered in deciding what is best for it. This decision should be made by one familiar, not only with the library and its needs, but also with all methods of any merit and the comparative ease and cost of introducing them into any given library.

Cautions.— Having decided to adopt the system in its decimal form as workt out and printed, it must be determind whether to adopt certain variations, noted in 1-5 below as practicable, and in some cases useful and desirable. The inexperienced user is very likely to feel entirely competent, after once reading the tables (in fact, without reading more than a single page regardless of its bearings on hundreds of other places, and without so much as looking at the author's explanations), to institute a series of "improvements." Experience proves that nothing could be more disastrous. It seems a simple

matter to put a topic a line higher or lower, but in some cases this may affect over 100 different entries in the Index, and there is no possible way to be sure of correcting them except by examining each one of the 20,000 heads. Frequently proposed changes, carefully studied out and submitted as improvements, are shown by our old records to have been adopted and used in the exact form proposed till considerations which had not been foreseen forced us to change to the form as printed. Even after years of experience one is not safe in pronouncing on an apparent improvement without consulting the voluminous records of previous experiments.

Those who have used the system longest have been misled into adopting changes which on trial they were compelled to reject, going back to the original form at the cost and confusion of two changes. In so apparently simple a thing as introducing subdivisions on blank numbers, mistakes have often been made; and after it was too late to correct them the makers have regretted their neglect to consult the author and secure the advice and coöperation of those most familiar with the manifold inter-relations. Even were the independent divisions equally good, their numbers do not agree with those which will be put in the printed tables and index, so that every copy of the printed scheme will have to be corrected in ms. before it is usable in that library. The only safe rule is to make no changes or subdivisions without submitting them to the author, who will gladly advise on such matters without charge, not on the ground of any superior wisdom, nor even because of larger experience in this special work, but because in this way only can it be learned if numbers have been already assigned with different meanings.

The user who adopts the printed form avoids the criticism sure to be aimed at any possible scheme. The moment he makes one "improvement" he must defend all the heads or alter them to suit each critic. Much time is saved by saying that the scheme is used as printed, and blunders are the author's, not the user's. A list of changes that have been made by others without such consultation was written for this note, but is omitted lest it should seem invidious. They illustrate how easy it is for able men to make what no one questions after explanation to have been outright blunders, in improving and adding to the printed scheme. The author is always grateful for suggestions from any one, and, having already given so much time in the effort to improve this system for the common good of all users, he invites the cooperation of those interested in completing needed subdivisions and eliminating any errors that may remain either in tables or index.

The following brief notes show the most important variations found practicable in the "relative index system," oftener called the "Dewey system." For its essentials see p. 87-9.

1. **Letter notations for changes.**—To protect other users from confusion, the publishers insist, as the copyright entitles them to, that our numbers shall not be printed with changed meanings without some clear indication of the fact in the number itself. If the reasons that led us to adopt the form printed are not conclusiv to another, we wish to remove any obstacles to his use of the system with such changes as shall satisfy him. This can be readily done by using a letter, or some other character than the 10 digits, to mark changes; e. g., if you wish a different set of subdivisions under any number, make it out to suit, and number it a, b, c, etc. It will arrange in its exact place and exact order without difficulty, and no other user of the system will be confused by the numbers. In the index, cancel the 1, 2, 3, etc., you have discarded, and write in the a, b, c, etc., adopted. **Whenever you use our exact numbers, use also our meanings for them as indext.** When you add any features of your own, add new numbers of your own that cannot be mistaken for ours, using, of course, as many of our figures as are not changed; e. g., if you want a new heading next to 551.34, Icebergs, it cannot properly go as decimal 1. Mark it 551.34a, and it arranges as wisht. If you wish to change a head from one place to another, cancel it where it stands, and *leave that number blank* in the tables. Then insert the head in its new place as above, as if it had never been in the tables.

This plan of introducing letters or other symbols wherever each user pleases, will give all needed freedom to the personal equation and desire for originality, and meets all real wants for peculiar classification in peculiar cases.

Fiction and juvenils.—In some cases it is usually best to modify class numbers by letters as above. In popular libraries half of the circulation is often in fiction. A great saving is effected here by omitting the class number entirely and using merely the book number, it being understood that *no* class number means fiction. After fiction, their great circulation makes juvenils a good place to economize, if they are kept separate, as is usually thought desirable in popular libraries. The books are clast exactly as if for adults, then a J is prefix to show their special character. This gives J alone as the class number for juvenil fiction, and e. g., J942, for a child's history of England. These are arranged in a parallel library by themselves, so that J942 comes between J941, juvenil history of Scotland, and J943, juvenil history of Germany.

If at any time it seems desirable to abandon the separate J library, it can be done, without altering a number, by distributing the J books among the regular classes, either ignoring the J entirely, or preferably by putting all the J books by themselves at the end of each class number.

There are thus three methods: 1, to have a separate J library; 2, to have the J books by themselves at the end of each class number; 3,

to have the J books in alphabetical order among other books on the same subject. In this last case the J is useful only to call attention plainly to their juvenil character.

The same marking is used for all these plans, and one can be changed into the other by simply distributing the books the other way, and telling the attendants that it has been done. Juvenil books go with adult books of the same class, unless a special J library is made, containing all juvenils.

Biografy.—A similar plan is recommended for this large class, as to the best treatment of which there is great difference of opinion.

Beside the plan printed in the tables, two others are recommended, viz.; to put all biografies in one alfabet of names of *persons written about*, marking all the books simply B for class number, and indicating the subject or biografee by a Cutter book number; e. g. life of Grant, B G76. This is most compact for charging, and is preferd in popular libraries of large circulation.

The third plan is to distribute biografy as far as possible to the subjects it illustrates, leaving, of course, under 920 lives not bearing specially on any subject; e. g. all lives of musicians go under 780 and its subdivisions, the life of Wagner being 782.2 instead of 927.82 as in the tables. Even in this arrangement it is better to indicate that it is biografy, putting B in place of the biografy figures 92; i. e. mark Wagner's life B782.2 (927.822). Then it arranges either with 782.2 or with biografy, as preferd, thus giving exactly the arrangement of the printed classification without changing a figure.

Travel.—By using T instead of B, the same principle gives a brief call number for the largely circulated class, description and travel.

Parallel libraries.—This treatment of fiction, juvenils, and biografy illustrates the principle. Its other chief application is for language collections. Some libraries have a constituency not reading English, and so need a parallel library in German, or Swedish, or French, etc. This is most easily made by simply prefixing an initial to the class number. If to be arranged, as with us, in one series of subjects, this may be ignored, or all German books on each subject may be grouppt under G at the end of each class number. The German parallel library is made by simply putting all G's together and arranging by class numbers. The initials used are G, German, F, French, I, Italian, Sp, Spanish, Sw, Swedish, Dn, Danish, Du, Dutch, N, Norwegian, R, Russian, W, Welsh, A, Arabic, etc. Where only one language is so markt in a given library, only one letter should be used, so as to avoid an extra letter in charging; e. g. S will answer either for Spanish or Swedish if used in only one sense. This plan has proved very satisfactory in actual use.

Combining language and literature.—The same principle can be applied also in combining each language with its literature, if it is

preferred to abolish the class, Philology, and make it simply an appendix to Literature; and the reverse would hold true if a philologist wisht to abolish Literature and make it an appendix to Philology; e. g. using 82p for English philology, and adding philology subdivisions, English dictionaries would become 82p3, English grammars 82p5, etc., and arrange either just before (or just after) English literature, 82o, 821, etc. For a better plan see Broken order, p. 36⁷-37⁴.

Reference library.— To separate books most needed, the best plan is to mark R before class numbers, and arrange the books together, as an R library. When the books are to go into the general collection again, a line can be drawn thru this letter. In the same way it often happens that a general private library is given on condition that it be kept together; e. g. the Phœnix library of Columbia College. This has P prefixt to the class number, and thus is a parallel library by itself. An initial is better in such cases than a * or similar mark, since the initial helps the memory and is just as brief. The same plan applies of course if the library has an "inferno" for books not used without permits, or more distant rooms where books worth keeping but seldom called for can be arranged in a parallel storage library.

Still another provision is made in o8o, 8 being the regular number for general collections (as in 5o8, 52o.8, etc.), for these special libraries which cannot be separated because of binding or conditions of gift. But instead of the three figures in o8o, a single letter, as described above, indicates the special collection, and it is easy to learn the location of the few special collections of any one library. Omission of initial o in the class "General works" was formerly recommended; e. g. 51 instead of o51 for an American periodical. But this usage is no longer advised, for the eye gets so in the habit of reading as *Science* any number beginning with 5, that there is a little mental hitch if, e. g., general periodicals are written 51, etc., instead of o51, etc.

Another reason is that the one and two figure numbers 1-99 are thus left available, and can be assignd to special use without confusion with tables or Index, for initial o is there printed for all numbers before 100. Yet in classification it sometimes happens that the first two figures are obvious at a glance, but time must be taken to determine the third. It is convenient to write these first figures, but if a mathematical book receives its first two figures (51), this unfinished number is liable to be confused with the two-figure number 51. This danger may be largely avoided by writing the decimal point after a blank; e. g. 51 ., to show that a figure is omitted.

2. **Contractions for specialists.**— The system is often used by specialists for very minute work when the decimals are run out to six or eight places. While the theory is better to write all these figures, thus showing the relation to the universe of knowledge, there is no

practical gain to justify the labor if a great quantity of slips must be numbered. A specialist working on "Swedish poetry of the age of Gustavus" can use a single letter instead of the full 839.715 and save five characters in numbering each note; or a dash may be written for all but the last figure, thus "—5". A body of such notes can be inserted together in their place in an index at 839.715, with a colored card to mark the special groups, with little danger of confusion. Still many prefer the theoretical completeness of writing a full index number for every separate slip.

3. Use of alfabet or chronology for final subdivisions.—While our plan is decimal as distinguished from the "dictionary system," we never hesitate to use the alfabet wherever that is more useful. Indeed, the main feature of our plan is its alphabetical index. Frequently in minute divisions it is economy to arrange alphabetically or by dates without using a translation system. This is specially true in index rerums and notes of specialists. After numbers have been used as far as that is the most useful form, then either the name chosen for the head or the year can be inserted at the end; e. g. towns in a given state, individual birds or insects coming under one number, names of men written about in biography, etc. Some may prefer to adopt this plan in places where we have chosen a grouping; e. g. in chemistry, to put all the metals in one alfabet under 546.3, instead of using the numbers 546.3-.99. If this change is wished, a more complete one will probably be better; viz. to put all the elements, non-metallic and metallic, in one alfabet under 546. Such use of the alfabet causes no confusion with the index, as it is simply subdividing more closely, unless, as in the last case (546.3), the alfabet replaces heads already printed. In this case, cancel all subsections in the tables by drawing a line obliquely thru the heads discarded, and mark in the margin "arranged alphabetically by elements," e. g. :—

546.3

Metals.

Arrange metals alphabetically.

.31	Alkali group.
.32	Potassium.
.33	Sodium.
.33	Lithium.
.34	Rubidium.
.35	Caesium.

Then find each of these heads in the index and cancel all figures after 546.3, e. g. :—

Potassium, inorganic chemistry, ~~546.32~~
 Rubidium, " " ~~546.35~~

This plan has special value in this place, as new elements are discovered from time to time, and can readily be inserted in alphabetical place. Still many chemists think it valuable to have similar metals grouped together for convenience of study, and to cover books written on the group as a whole, and also think it important to have a number

for rejected elements, because the literature and references about them remain, and must be provided for. The insertion of new elements is provided for, as explained on p. 14⁴.

4. **Broken order.**—Another common and often desirable variation for shelf arrangement is to break the sequence of the numbers, in order to get books most used nearest the delivery desk. The theory is to keep the whole 1000 numbers in strict sequence; but a higher rule to be obeyed everywhere is to sacrifice any theory for a substantial gain. Practically it will seldom happen that it is not best to break the order of the classes. Often divisions are best arranged out of numerical place; e. g. 520 Astronomy may be wanted in a room accessible at night; fiction, juvenils, and biography are always wanted near the delivery desk in a public library, and in strict order are as likely to come at the most distant point. Numberless local reasons may make a broken order desirable. There need be no hesitation in adopting it if enough is gained, but there should be charts clearly showing where each division starts; e. g. after 430 "Preceding 830;" after 520 "In observatory," it being necessary to specify room for books entirely removed from the general library arrangement. The page of 100 divisions is reprinted by the publishers, on cards with wide margins, for just this use. Opposit each division is marked its beginning on the shelves, and it is easy to vary the order as much as necessary, tho of course the nearer the divisions run in regular order 1 to 99, the easier it is for a stranger to find his way about. Variations in the order of the sections are less wise and seldom necessary. If made, a wood or card-board dummy in the regular place should have mark on its side the present location of the section removed.

This broken-order plan is best for bringing together the philology and literature of each language without altering numbers or prefixing any letter. Let 420 be shelved just ahead of 820, 430 ahead of 830, and so for all languages, making the general note that all 400's are shelved just ahead of the corresponding 800's, and remembering that after the main languages four or more figures are required to indicate language alone, so that Portuguese philology goes between 868 and 869, Russian between 891.69 and 891.7, and Welsh between 891.65 and 891.66.

5. **Pro and con division of topics.**—It is very useful in many cases to separate the books on a topic with strongly marked sides, so that either set of views and arguments may be seen by itself. This has been done by subdivision in some cases,—e. g. 337, Protection and Free trade. In others it is equally useful, and can be indicated by an added mark,—e. g. 324.3, Woman suffrage. The number may be used for general works, giving facts, etc., and advocates and opponents may be separated by + and — for positive and negative, or by p and c, the initials for pro and con, which tho short, are too long for a circulat-

ing library to charge. In reference libraries, on cards, etc., most will prefer to write out *pro* and *con*, to distinguish the two groups. The order on the shelves is, of course, alphabetical, viz. 324.3, 324.3C, 324.3D; or if + and — are used, the usual order is followed: +, —.

These five notes suggest the range of variations that may be made in the Decimal Classification and illustrate its adaptability to widely different conditions. For book numbers which decide the order of material after it is grouped into its final classes, see page 30.

OTHER USES

Tho the system was devised for library catalog and shelf arrangement, 17 years have developed many new applications. Nearly every administrative department feels directly the great economy, and in every field of literary activity this classification has been found a labor-saving tool, whose practical usefulness has exceeded the most sanguine hopes of its early friends.

Bookstores.—The plan is a great convenience to both dealers and customers, when applied to the miscellaneous stock of a bookstore. Very often a much wanted book, specially if not recently published, is reported "not in stock," when such an arrangement by subjects would have revealed its place at once. Specialists often find on the shelves books that they would never have ordered, but are glad to buy after examination. Experience proves it a profitable thing for a dealer to arrange his books so that each person may find those in which he is interested without examining the entire stock.

Scrap-books.—The plan has proved of great service in preserving newspaper clippings. Scrap-sheets of uniform size are used, with the class number of the subject written in the upper corner of the front edge of the page, and clippings are mounted on the sheet as in a common scrap-book. When one sheet is full, another is inserted at the exact place. Thus perfect classification is kept up without blank sheets, and at the smallest outlay of money and trouble. This "L. B. Scrap Book" is for most persons the best form. These sheets are then arranged numerically like the subject card catalog, the sheets of each class being farther arranged, when desirable, under alphabetic subheads. Scraps thus mounted are shelved either in manila pamphlet cases or in patent binders.

Index rerums.—These are best made on the standard P size (7.5 x 12.5 cm.), card or slip. Long study and experience prove that the stock "L200" is best for private indexes, etc. It costs only half as much as the "Br. 400," which is largely used for public library catalogs, takes only half the room, and gives great satisfaction. The class number is written in the upper left-hand corner, any alphabetic subject head follows at the right, and notes fill the card below. The cards are then filed in order of class numbers like the subject card catalog.

the cards of each class being further arranged, as in case of the scrap sheets, according to any alphabetical subheads. Scores of devices for convenient handling and storage of these slips and of scrap sheets and pamphlets are already manufactured. Details cannot be given here, but may be found in the full descriptive and illustrated catalog of the Library Bureau, 43 Federal street, Boston.

Another admirable form is similar to the L. B. Scrap Book or shelf list; in fact, is simply a shelf list without the printed headings and down lines. The subject number goes in the upper corner, and all notes on that subject are written on the sheet below. This book fits an ordinary shelf, has the advantage of a full letter page in sight at once, and holds over five times as much as the P card. Of course the system can be applied to slips or sheets of any size, but there are literally hundreds of accessories and conveniences exactly adapted to these two sizes, which are used tenfold more than all others combined; so it is folly for one to begin on another size, and lose the advantages of this uniformity. If intermediate sizes must be had, the ones most used and least objectionable are Billet 10x15 cm., Note 12½ x 20 cm., and Ms. 15 x 25 cm. There are repeated cases where users of some other size have finally found it profitable to change to either the P, 7½ x 12½, or to the L, 20 x 25 cm., even at the cost of re-writing many notes.

Note books are best in this last described form. The much poorer method is to take a bound blank book, and assign the class numbers in order, giving about the space it is thought each will require, and, when the pages so assigned are full, note at the bottom where the rest of the material may be found.

This has all the objections of the old fixed location as compared to the relative, and will hardly be adopted by any person who has ever seen the simplicity and economy of the shelf-list system.

Topical indexes.—The class numbers are used in indexing books read, usually by making the entries in the Index Rerum under proper numbers. The number takes the place of a series of words, and the results can be handled, arranged, and found much quicker because of the simple numerals.

The advantages that the system possesses for making topical indexes of collected works, periodicals, transactions, etc., will be evident to every librarian. These consolidated indexes may be arranged together with the card catalog of the books, or by themselves, as seems best in each case.

It would exceed the limits of this brief description to notice all the varied applications of the system. Enough have been mentioned to show its wide adaptability to the wants of the librarian and the student.

Tho much elaborated and in some points altered, the essential character of the plan has remained unchanged from the first. Doubtless

other improvements are still possible, and users of the scheme are invited to suggest any needed new heads, and to note any omission to be supplied in the Subject Index.

In this brief account the author has probably failed to meet some objections which may be raised, and which he could easily answer. He therefore asks the privilege of replying personally to any such objections, where they arise, believing that it will be possible to answer, if not all, at least a very large proportion.

The labor involved in preparing the Classification and Index has been wholly beyond the appreciation of any who have never attempted a similar task. Much valuable aid has been rendered in many departments by specialists, over 100 of whom have assisted in developing the scheme. Among these are many well-known scholars, and to all a most cordial acknowledgment is made. Without such assistance, the present edition could not have been made, for many minds were necessary to supply the technical and special learning absolutely necessary in filling the minute heads. Indeed, in many subjects the author's share in the work has been limited to the modification necessary for technical adjustment to his scheme of the material prepared by specialists. To many prominent librarians the author is indebted for valuable suggestions and appreciative criticism. While these friends are in no way responsible for any remaining imperfections, they should have credit for many improvements in the scheme made in these 17 years of revision, during the first three of which it was kept in manuscript, in order that its many details might be subjected to actual trial, and modified where improvement was found possible.

In all the work from its first publication to the present, the most extended and valued assistance has come from my college classmate, associate, and friend, Walter Stanley Biscoe, my first assistant in Amherst College Library, in the charge of which he succeeded me, resigning to accept again in 1883 the place next me in the Columbia College Library, and again resigning in 1889 to become Librarian in charge of Classification and Catalogs in the New York State Library. Of the rare unselfishness with which he has given time taken from rest and recreation to advancing work in which he shared my interest, this book is the best witness.

In his varied reading, correspondence, and conversation on the subject, the author has doubtless received suggestions and gained ideas which it is now impossible for him specifically to acknowledge. The *Nuovo sistema di catalogo bibliografico generale* of Natale Battezzati, of Milan, adopted by the Italian publishers in 1871, though he has copied nothing from it, more than any other single system stimulated the author's study of the problem. The plan of the St Louis Public School Library and that of the Apprentices' Library of New York, which in some respects resemble his own, were not seen till all the essential

features were decided on, tho not given to the public. In filling the nine classes of the scheme, the inverted Baconian arrangement of the St Louis Library has been followd. The author has no desire to claim original invention for any part of his system where another has been before him, and would most gladly make specific acknowledgment of every aid and suggestion were it in his power to do so.

With these general explanations and acknowledgments he submits the scheme, which has cost so much time and strength, with the hope that it may prove as useful to others as it has to himself. It is a little book, but it came not forth except by grievous labor.

MELVIL DEWEY

NEW YORK STATE LIBRARY
Dec. 25, 1890

The previous editions have been dated Amherst College Library, June 10, 1876; Columbia College Library, Aug. 10, 1885; and Columbia College Library, Aug. 30, 1888.

EDITION 7

The complete revision in progress involvs many new interrelations. As extensiv advance testing of new schemes is impracticable, it is expected that practical application will develop unnotist faults. Classifiers are therefore requested to use the new tables critically and report defects of any kind, with proposed remedies and any additional needed subdivisions. All such criticisms are a decided help and regarded as a favor.

Minuteness Minute as are many subdivisions, there are none that some have not askt for and almost none that others have not declared needless. Since the degree to which any scheme shall be applied is optional with each classifier and close analysis is useful to everyone in defining content or in clarifying differences between related subjects, even the most elaborate schemes are printed in full if no essential objection has been brought against them by the best qualified critics. Note type is used for topics clearly useful only to specialists or as showing scope. Many others probably belonging in the same category are in the regular type of their grade, if doubtful.

Basis of revision After study of all other available systems the *Decimal classification* was adopted in 1895 by the newly organized Institut International de Bibliographie as best adapted to its projected universal subject bibliography to cover ultimately all subjects in all languages thruout all periods of the world's history.

Determining factors were:

- 1 The *Decimal classification* was a classification of topics independent of the language or exact synonym by which they were expressed.
- 2 Its notation was in itself the only international language, since it consisted solely of arabic numerals.
- 3 Its decimal principle allowed indefinite intercalation.

Overdetailed as the classification already seemed to many librarians, lack of subdivision was the Institute's first difficulty and its promoters urged the author at once to enlarge the tables. State library duties at that time made concentration on the classification impossible, but cooperation and criticism were promised if the Institute would draft the required extensions. When its remarkably rapid work precluded even adequate criticism, it was authorized to publish its tables and assured that the American revision would vary from them as little as practicable.

Obviously bibliographic and general library use are so different that in some cases what is clearly best for the real needs of the scholarly specialist, where any symbols can be used on index cards, would be quite impracticable for a public library, which must have symbols that can be gilded on the back of books, readily used by the unskilled public in writing call slips, and rapidly handled by low-priced runners and young clerks. Where differences occur between the Institute tables and the 7th edition of the *Decimal classification*, many have been agreed to by the Institute and will appear as here given in its future editions, others are the result of serious objections made to the Institute classification, but with the expectation that agreement will soon be reached, as it is the purpose of both Institute and author to harmonize the few divergencies as rapidly as possible.

Changed numbers Changes are fewer than anticipated and will be given in detail in the 'List of corrections, changes and minor additions' soon to be mailed to all recorded owners of earlier editions. In many cases the changes are only a broadening of terms to meet later developments. Numbers where any change thus far occurs are:

021.1	374.2-4	621.34 <i>vacant</i>
.6-7	.7-9	.62-63
339	375.01-04	.88
371.46 <i>vacant</i>	378.1	.91
.6-63	.99	.94
67-68	541.1 <i>vacant</i>	.99 <i>vacant</i>
.91-97	.3	642
372.1 <i>vacant</i>	543.8-9	643
.8	620.1	647

Separates There is growing use by specialists who wish very detailed tables of their subjects, but only so much else as will show the perspective of these subjects in the general scheme and provide for broad classification of other material on the same plan. As fast as demand will cover expenses, any subject that has been elaborated will be published separately with general explanation, directions for use, 3 figure tables for other subjects, and full index: e. g. normal school libraries specializing on education will want the elaborate new 370 scheme but may not need to carry classification of other subjects beyond 3 figures; electric engineers may have no use for 370, but will need all details of 621.3 with only 3 figures for other subjects.

Bibliographic modifications The Institut International de Bibliographie has devised and uses ingenious symbols, expressing almost any interrelations and greatly increasing numbering capacity. But unfortunately these new symbols are thought by many to be too complex for ordinary shelf or catalog use, tho 10 years use by the Institute with unskild clerks has proved that this objection is more a fear than the result of fair trial. They are given here broadly for personal notes of specialists and other close classifiers, to whom their vast practical advantages will strongly appeal, and as a key to the notation of the Institute's bibliographic cards. Elaborate details and explanations are in the *Classification décimale*, Brussels, 1905. Obviously these symbols allow subdivision of the same number in many different ways without confusion.

1 Accretion sign + This is the simplest of all the symbols and indicates exactly what it suggests, that the article so numbered treats of all the subject numbers connected by +; e. g. 637+614.32 a work concerning dairies and inspection of dairy products.

2 Coupling sign - This is used for coupling to a subject a series of subdivisions belonging to another number, but only where notes in the tables allow it, as confusion would otherwise result. As this is our sign for "to and including," use of it in the Institute sense requires substitution of "to" for it in our sense.

3 Relation sign : This is the most useful symbol of all, as it involves no change of number except omission of final o by those preferring the shortest form. It indicates merely that the subjects so connected are considered in relation to each other, thus affording means of expressing almost limitless interrelations: e. g. ethics in relation to fine arts is 17:7 (or in full 170:700). Vice versa, art in its ethical aspect is 7:17; the order of the numbers before and after the colon being dependent on emphasis or on subject with which they are to be arranged.

4 Form sign (o) Form or generalities are express by a parenthetic number beginning with o. This is farther subdivided as follows:
(o:) Form symbol: e. g. 335 (o:843) means Socialism treated in the form of a French novel.

(00) Subdivisions peculiar to a subject; e. g. for history it means sources. It is farther subdivided and in some cases modified by a hyphen figure; e. g. 9(44)(001-3) means *Catalog of official sources of French history*, (001) meaning official sources and -3 meaning catalogs, indexes, lists, etc. (01)-(09) are the same as our regular form numbers 01-09. Obviously we can not replace our long established simple form numbers by something so much more complex that it is impracticable for shelf use.

5 Universality sign ∞ The mathematical sign of infinity is used with any combination of symbols to mean 'Without limitation as to the idea expressed by that symbol.' With place symbol (see 6 below) it means 'including all places': e. g. 9(00) History of all countries; 9(00)" ∞ " Universal history covering all periods (see 8 below).

6 Place sign (3)-(9) These replace our regular country subdivisions found in 930-999, but do not conflict, as the Institute merely leaves D C 930-999 vacant, and writes History of France 9(44) instead of 944. Other auxiliary place numbers indicating general region, direction, geologic place, time, etc. are also provided in place curves.

7 Language sign = This sign preceding language numbers, as found in 400 Philology, indicates subdivision by language; e. g. 398.4=9162 means Fairy tales in Irish, 91.62 being the philology number for Irish language in 400.

8 Time sign " " Numbers denoting time subdivision are written in quotation marks. The Institute scheme gives an elaborate system of time subdivisions.

9 General points of view sign 00 Each of the following numbers for point of view has also a series of subdivisions:

- 001 Speculativ: idea, purpose, plan, etc.
- 002 Realization: execution, construction, etc.
- 003 Economic: industrial production, cost and sale prices, etc.
- 004 Service and use: workings, administration
- 005 Equipment and apparatus
- 006 Buildings and establishments: details of organization and service
- 007 Special personnel

10 A to Z alphabetic arrangement by name of person, place or thing is indicated according to circumstances by initial or whole name.

Sequence of these symbols in the class number may be varied by users to produce any special arrangement desired, but unless distinct notice of this is given, the sequence is arbitrary in the following order

(0) " " = : - A-Z

e. g. 91(44)(03)=2 Dictionary of French geography in English.

Index The relativ index is greatly enlarged both by heds from new tables and by many new references to tables not yet revized, and is consolidated into a single alfabet. It aims as heretofore to include every synonym likely to be sought of subjects exprest or implied in the tables. Insted however of repeating all entries under each synonym as before, it repeats only when there are less than 3 entries; but to save space when more than 3, it gives them as a rule only once and refers from other spellings or synonyms to the one chosen; e. g. Scepticism *see* Skepticism, Refuse *see* Wastes.

Acknowledgments Our greatest indettedness is to the Institut International de Bibliographie for its great volume of valuable work, covering almost the whole range of subjects, which forms the basis of our revision, and also for its advice and criticism during the progress of our work. Among the many friends to whose critical examination and suggestions the makers and users of the *Decimal classification* owe many improvements, preeminent are: R P Bigelow, librarian of Massachusetts Institute of Technology; Dr C V R Bumstead of Newark; Prof. E P Cubberly (Stanford); Prof. Charles DeGarmo (Cornell); Dr John B Roxby of Philadelphia; Prof. E L Thorndike (Columbia); the West Point military academy librarian, Dr Edward S Holden, and faculty; Prof. A E Kennelly of Harvard; and Captain John Clark Wilson, U S navy.

We are indetted for much valuable constructiv work as well as criticism to C W Andrews of the Crerar library and his staff; Dr Herbert Haviland Field of the Concilium Bibliographicum; Sidney L Wood and Godfrey Dewey in engineering; New York State library, specially to Walter S Biscoe, whose criticism is most valued of all; Professors L P Breckenridge (Sheffield scientific school) and G A Goodenough (University of Illinois); and to A L Vöge now of Mechanics Mercantile library, San Francisco, for his untiring and resourceful aid on the technical subjects in this edition and on others not yet completed. The Library of Congress classifications and subject hedings freely placed at our disposal by Dr Herbert Putnam have been most useful in suggesting many additions to the index.

Except a year in charge of classification in the Osterhout library, Miss May Seymour has been with me for 24 years, since she entered the first Library school class in 1887. At the New York state library, classification was her department till she was promoted to director's assistant. For the past 22 years every item of work on the new editions has past thru her hands. Her responsibilities as managing editor of the *A L A catalog* of necessity precluded work on the Classification for several years. For this edition she has done all the editorial and much constructiv work, has secured expert cooperation, cald attention to faults or omissions and sought the best available compromizes where doctors disagreed. This supervision will continue, so that future editions will

benefit by the cumulative experience of the same editor. To this vast labor she devotes rare scholarly industry and a loyalty for which no words of thanks can be adequate. She shares my faith in the immense usefulness of the completed work, is doing nearly all the hardest work and deserves the gratitude of all who profit by this invaluable laborsaver.

MELVIL DEWEY

Lake Placid Club N Y
10 April 1911

EDITION 8

Edition 7 was exhausted a year and a half sooner than expected, thus forcing an unexpectedly early issue of edition 8. This contains expansions of 320, 331, 369, 623.8, 624, 625, 629, 630, 971, 979.4, many new notes and index entries.

Many other additions already well advanced will be included in edition 9, on which active work will be steadily continued.

MELVIL DEWEY

Lake Placid Club
10 April 1913

EDITION 9

Like edition 7, edition 8 was exhausted so much earlier than expected that edition 9 has become necessary too soon to complete the tables plan for it. It differs from the last chiefly in many new notes, index entries and correction of errors.

MELVIL DEWEY

1 October 1915

EDITION 10

The chief new features of this edition are the elaborate but still incomplete agriculture classification, and the recast of 940 with the Great War on 940.3 and .4. The gain from having bases of 4 instead of 6 figures for this detailed classification seemed clearly to justify the cost of renumbering material already in 940. For the scheme as it stands we are mainly indebted to the A L A advisory DC committee. It will be further enlarged to fit the growing body of war literature, but it is still too early to make satisfactory subdivisions for campaigns and battles (940.42-.45). There are also many smaller additions, besides modifications, notes, and over 3000 new Index entries.

Extended tables of 651 Office economy, and 658 Business methods, in pamphlet 'proof under revision' will be sent on request for test and criticism that will give us confidence enough in their working value to incorporate them in the next edition.

MELVIL DEWEY

Lake Placid Club N Y
11 August 1919

INDEX TO INTRODUCTION

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C D means *Classification décimale*, the enlarged French translation of D C.

I I B means Institut International de Bibliographie.

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- 2 Religion
- 3 Sociology
- 4 Philology
- 5 Natural science
- 6 Useful arts
- 7 Fine arts
- 8 Literature
- 9 History

DIVISIONS

000	General works	500	Natural science
010	Bibliografy	510	Mathematics
020	Library economy	520	Astronomy
030	General cyclopedias	530	Physics
040	General collections	540	Chemistry
050	General periodicals	550	Geology
060	General societies Museums	560	Paleontology
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470	Latin	970	North America
480	Greek	980	South America
490	Minor languages	990	Oceanica and polar regions

General worksLimited to *none* of the 9 classes

- | | | | |
|-----|--|-----|---|
| 000 | | 050 | General periodicals |
| 001 | | 051 | American |
| 002 | | 052 | English |
| 003 | Left blank for local history or biography, etc. where some special collection is making which is to be kept in a case by itself, out of its regular place in the classification. Individuals use these numbers for personal diaries, note books, memorabilia, etc. | 053 | German |
| 004 | | 054 | French |
| 005 | | 055 | Italian |
| 006 | | 056 | Spanish |
| 007 | | 057 | Slavic |
| 008 | | 058 | Scandinavian |
| 009 | | 059 | Minor languages |
| 010 | Bibliography | 060 | General societies |
| 011 | General bibliographies | 061 | American |
| 012 | Of individuals | 062 | English |
| 013 | “ special classes of authors | 063 | German |
| 014 | “ “ forms, pseudonyms, etc. | 064 | French |
| 015 | “ “ countries | 065 | Italian |
| 016 | “ “ subjects | 066 | Spanish |
| 017 | Class catalogs | 067 | Slavic |
| 018 | Author “ | 068 | Scandinavian |
| 019 | Dictionary catalogs | 069 | Minor languages |
| 020 | Library economy | 070 | Newspapers Journalism |
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| 024 | Regulations for readers | 074 | French |
| 025 | Administration Departments | 075 | Italian |
| 026 | Libraries on special subjects | 076 | Spanish |
| 027 | General libraries Reports, etc. | 077 | Slavic |
| 028 | Reading and aids | 078 | Scandinavian |
| 029 | Literary methods Labor-savers | 079 | Minor languages |
| 030 | General encyclopedias | 080 | Special libraries Polygraphy |
| 031 | American | 081 | Left blank to be used (if preferred to prefixing an initial) for general collections of books which by terms of gift or for other cause must be kept together. This must be kept distinct from 040 where the individual books are polygraphic, i. e. are bound pamphlets, essays, addresses, scrap or note books, etc. too general in scope to go under any single class. Juvenils could be put here, but are better kept in a separate class, mark J |
| 032 | English | 082 | |
| 033 | German | 083 | |
| 034 | French | 084 | |
| 035 | Italian | 085 | |
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| 044 | French | 094 | Rare printing Privately printed |
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- | | | | |
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011 General bibliographies Universal catalogs

011 is by **Authors**. If by **Subjects** they go in 016

Properly a catalog is of a special collection and so tells where the works may be found. A bibliography disregards actual location and tells what there is, but its contents can seldom be found in any one library

012-016 include both bibliographies and catalogs. 017-019 is limited to catalogs of general collections

012 Of individuals

Alfabeted by subjects of bibliographies (bibliographees), not by compilers; e. g. Chaucer, Dante, Ruskin, etc.

A bibliography of an Individual may include either works about or by the individual, or both

Authors on whom special collections are being made (e. g. in 800) attract their bibliographies to same number, leaving only a reference here. Other individual bibliographies class here, unless clearly limited to some subject; e. g. artists or musicians, bibliography of Wagner 016.782

013 Of special classes of authors

Subdivided like the general classification, as indicated below. Lists of writings of such classes, if limited to a special subject, class with that subject; e.g. list of historical works by Jesuits 016.9. But in exceptional cases the bibliography of a special class of authors may be put with that class; e.g. bibliography of women's writings 396.58, tho 013.396 would be the better number in a general library

- .0206 Writings of members of A L A
- .064 " " " " French academy
- .282 " " Roman catholics
- .378744 " " Harvard graduates

.9 Writings of foren residents in a special country

Often extended to one or more generations of descendants. This provides for bibliographies in which nationality, not subject, is the important idea

.91 Authors from special country

Divided like 930-999 by country of origin and farther subdivided with 0 like 930-999 by country of adoption; e.g. 013.91485 bibliography of writings of Swedes outside Sweden, 013.91485044 writings of Swedes in France, 013.9148507 of Swedes in America. This groups under *mother* country; e.g. gathers together all lists of works by emigrant Swedes

.930-999 Foren authors in special country

Usually preferable to .91. Divided like 930-999 by country of adoption and farther subdivided with 0 like 930-999 for country of origin; e.g. 013.944 foren authors in France; 013.973 foren authors in U S, 013.9730485 Swedish authors in U S; 013.9485073 American authors in Sweden. Ordinarily 013.94807 would be explicit enough; the longer number is not advised. This groups under *adopted* country; e.g. gathers under a given country all its foren authors

014 Of special forms: anonyms, pseudonyms, etc.

.1 American .2 English .3 German, etc.

015 Of special countries

Books published in the country. Publishers lists, current publications. Subdivided by countries like 940-999; e. g. 015.42, Bibliography of books published in England, as *Lowndes or English catalog*

The history of literature, i. e. belles lettres, poetry, drama, fiction, etc. goes, of course, with those topics in 800; but the literary history of any given place or period covering the writings on all subjects as well as in literature, is bibliography, and goes usually in 015, tho the literary history of some special class is 013

016 Of special subjects

Subdivided like the main classification, from 000-999; e. g. 016.01 Bibliography of bibliographies; 016.091, of manuscripts; 016.5, of science; 016.942, of English history, etc.

See also next note

Library and sale catalogs

Catalogs of any special subject, whether subject, author, or dictionary, go under its subject number, in 016, which is the ruling heading wherever it conflicts with another. 017-019 therefore includes only catalogs of general collections, limited to no one class or subject

Under 017-019, 4 means catalogs of books for sale, not published, by booksellers. For *publishers catalogs* see 015

017 Class catalogs: systematic or logical

.1 Public .2 Private .3 Auction .4 Booksellers

Class here author and subject lists bound together, as they are much oftener used to see what has been written on some subject than whether a library has a certain book

For all forms of alphabetic subject catalogs, see 019. See 016 for Bibliographies

018 Author catalogs See 011 for Bibliographies

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A volume containing both author and subject catalogs is more useful in 017. For auction catalogs of private libraries use 018.2, not 018.3. 018 includes accession, chronologic, and any other forms (except subject and dictionary) of catalogs of collections

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e.g. what a library can do for a manufacturing community
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Alfabeted by library; e.g. accounts of work with schools by Hartford public library under Hartford, by Osterhout library at Wilkesbarre under Osterhout

- 021.4 Home education**
 This includes all services or added fields of work undertaken by the library outside the use of books. For programs, reports, etc. of home education agencies, see 374.1-9
- .41 Study clubs Reading circles, etc.
 - .42 Conferences, conventions, institutes, etc.
 - .43 Lectures
 For extension courses, see 021.44
 - .44 Extension courses Lecture study
 - .45 Entertainments: dramatic, musical, etc.
 - .46 Museums and temporary exhibits
 - .47 Science museums or collections
 - .48 Art galleries " "
 - .5 **Library as a recreation**
 Serving refreshments; e. g. tea
 - .6 **Library extension and cooperation**
 For work done by the state see 021.8
 - .61 Deliveries
 See also 025.6 and 022.16
 - .62 Branches
 See also 022.15
 - .63 Centralization Grouping of libraries
 - .64 Cooperation between libraries
 Cooperation in any special department is class with the department; e.g. interlibrary lending 025.6
 - .65 Traveling libraries
 A collection (usually 25 to 100 volumes) either general or on one subject, lent to a community, library, study club or other organization. Book wagon
 - .66 House libraries
 A small traveling library for use of a person or household. Originated at New York state library for isolated students
 - 67 Home libraries
 Small libraries for children, each library kept at home of some child for use of a group, under supervision of a visitor. The libraries travel from group to group. Originated by Boston Children's aid society
 - .7 **Founding Developing and maintaining interest**
 This is mainly for starting a library, interesting people and bringing them to the library. For most special methods of interesting those who are already readers see 025.5 and 025.6
 - .71 Personal canvass, visits and correspondence
 - .72 Circulars
 - .73 Advertizing
 In newspapers, posters, street cars, etc.
 - .74 Press Publicity
 Discussion of use of newspaper columns (editorials, articles, letters, new book lists, etc.) to secure interest
 - .75 Schools and teachers
 - .76 Churches and ministers Pulpit
 - .77 Literary and other organizations and institutions
 - .78 Lectures Public meetings and addresses
 - .79 Library propaganda
 Societies, local or general, for encouragement and stimulation

LIBRARY ECONOMY

- 021.8 **Libraries and the state** **Library legislation**
- .81 State supervision
- .82 Library departments or commissions
 Special work done by commissions is class by its subject. Reports of commissions, if largely a summary of the *public* libraries of the state, go in 027.4
 If important to keep all work of commissions together, class their reports here
- .83 Government aid
- .831 State grants of money
- .832 Local subsidies
- .84 Gifts of books
- .841 Public documents, etc.
- .842 Copyright books
- .85 Exchanges
 See 025.266 for systems of exchanges, management, routine in individual libraries. This number is for general exchanges by state or central authority
- .851 Local
- .852 Foren
 Vattemare international exchanges, Smithsonian exchanges
- .86 Privileges
- .861 Remitted duties Free importation
- .862 Free postage Franking privilege
- .863 Lower rates or special facilities Cheap library post
- .87
- .88 State or local hindrances Politics
- .89 Library legislation
 General; laws for a special subject ar class with the subject; e.g. law for a library commission 021.82; law against injuring library books 024.8
- .891 National legislation
- .892 State “
- .893 Local legislation (county, city or village)
- .894-.899 Legislation in special countries or places
 Divided like 940-999
- .9 **Support, raising funds, etc.**
 For state aid separate from local help see 021.8
- .91 Taxes Appropriations Subsidies
- .92 Endowment
- .93 Gifts of money or books
 See also 021.84 Government gifts
- .94 Bequests
- .95 Subscriptions
- .96 Lectures Fairs Entertainments, etc.
 For raising money. For educational purposes see 021.43-45
- .97 Membership fees

022 Library bildings

See also 727.8 Architecture. For care of bilding see 025.9

- .1 **Location, site, etc.**
- .11 **Location with reference to field of work**
Accessibility to population servd, to other libraries, educational institu-
tions, etc.
- .12 **Site**
With reference to space, air, light, soil, slope of ground, etc.
- .13 **Provision for growth** **New bildings**
- .14
- .15 **Branches**
- .16 **Delivery stations**
- .17 **Newsrooms, reading rooms, etc.**
- .2 **Material, protection**
- .21 **Material: wood, brick, stone, steel, glass, etc.**
Relativ fitness for library bildings. See also 620.11 Strength of materials;
691 Bilding materials
- .22
- .23
- .24 **Fireproof construction**
- .25 **Protection against fires**
Location and relativ efficiency of apparatus: hose, extinguishers, chemic
engins, standpipes, etc. For watchman see 025.9. See also 614.84 Fire
protection
- .26 **Library fires, burning of libraries**
- .27 **Insurance**
- .28
- .29 **Other dangers**
Flood, earthquake, cyclone, war, etc.
- .3 **Design Plans Construction**
Alfabet plans, elevations, exteriors, general descriptions, etc. by name of
library. Use .31-.33 only for indexing
- .31 **By kind of library**
Divided like 027. Group plans for public libraries, 022.314, in 3 subsections
022.3141 Libraries under 20,000, small; i.e. under this number list
plans of such libraries, but shelv them in their alfabetic place
under 022.3
.3142 Libraries from 20,000-100,000, medium
.3143 Libraries over 100,000, large
- .32 **By subject**
Divided like 026; e.g. under 022.3234 list plans of law libraries so that they
may be redily referd to in 022.3, or in journals or reports clast elsewhere
- .33 **By country**
Divide like 930-999 and use like 022.31-.32 only for reference
- .34 **Design and decoration**
Divided like 729 as follows:
- .341 **Elevation, style**
Only for general discussion; class elevation of a special library under
022.3
- .342 **Plan**
Number, distribution and dimensions of rooms; special forms, spiral,
circular, etc. See note under 022.341

LIBRARY ECONOMY

- 022.343 Artistic forms
- .344 Painted decoration, etc.
- .348 Stained glass
- .349 Accessories and fixt furniture
 - Include paintings, statues, busts, etc. as decoration for bilding. Special library furniture, bookcases, loan desks, etc. ar 022.9 .
- .35 Construction
 - Divided like 721. Class here only discussions limited to library bildings
- .36
- .37 Library rooms as part of other bilding
- .38
- .39 Remodeling old bilding
 - Either other bildings (churches, residences, etc.) for library purposes, or remodeling a library to meet modern conditions
- .4 **Storage and shelving**
 - For furnishing of private libraries see 645.63
- .41 Storage
 - Capacity per square meter of floor, or running meter of cases; allowance for growth
- .42 Shelving round sides of room
- .421 Wall cases
- .422 Alcoves
- .423 Galleries
- .43 Stacks
- .431 Stack rooms
 - Dimesions, . maximum width with natural light only. Number of rooms, one or several. Number of floors
- .432 Arrangement of cases
 - Parallel, radial; light; open access, supervision
- .433 Movable cases
- .434 Ailes
 - Position, width
- .435 Flooring of stack rooms
 - Solid, glass, open grating
- .438 **Maximum floor load**
- .44 Cases, tiers
 - .441 Material: wood, metal, glass
 - .442 Dimensions of case and tier, hight, length
 - See also 022.452 Dimensions of shelf
 - .443 Plan of cases
 - Open or closed ends and backs; 1 or 2 ledges
 - .444 Fixt or movable shelvs
 - .445 Quarto and folio shelving
- .45 Shelves
 - .451 Material
 - Wood, metal, glass, stone, sheet iron, skeleton steel
 - .452 Dimensions: length, depth, thickness; standard shelf
 - .453 Surface finish or covering
 - Paint, varnish, cloth or lether covering
 - .454 Shelf supports: pins, brackets

- 022.46 Cases and shelvs for large books, lying flat
Dimensions, sliding or roller shelvs, etc.
- .47 Closed cases Doors: glass, screen or wood
- .48 Special cases
- .481 Hanging presses
- .482 New-book cases
- .483
- .484
- .485 Cases for maps, engravings, etc.
- .486 Cases for fotografas
- .487 Cases for lantern slides
- .5 **Reading rooms**
See also 022.63 Rooms for special material
- .51 General reading room Central hall
- .52 Small reading rooms Study rooms
Gallery study tables. For seminar and class rooms see 022.65
- .53 Reference room
- .54 Standard library
- .56
- .57 Women's room
- .58 Children's room
- .6 **Administration and special rooms**
- .61 Rooms for trustees or outside organizations
- .611 For trustees
- .612 " committees, commission, school board
- .613
- .614 For local societies
- .62 Administration rooms
Divided like 025
- .63 Rooms for special material
Divided like 025.17; e.g. 022.6332 Newsrooms
- .64 Special collections: patents, local history, etc.
- .65 Instruction rooms, etc.
- .651 Lecture room or hall, theater, concert
- .653 Seminar room, class room
- .655 Museum
- .656 Art gallery
- .657 Exhibition room
- .658 Fotografic and dark room
- .659 Piano and music room

LIBRARY ECONOMY

- 022.66 Recreation rooms
 - .661 Conversation room
 - .662 Chess room
 - .663 Other games
 - .664 **Billiards**
 - .665 **Bowling**
 - .666 Gymnasium
 - .67
 - .68 Other rooms Lavatories, etc.
 - For health, comfort or convenience
 - .681 Entrance halls and corridors
 - .682 Waiting room
 - .683 Telephone booth or room
 - .684 Lunch room
 - .685 Coat room
 - .686 Toilet room, lavatories, etc.
 - .687 Garage, bicycle room, etc.
 - .69 Residence quarters
 - .691 Librarian
 - .695 Janitor
 - .7 **Lighting**
 - .71 Natural lighting; windows
 - For architectural side see 022.358; for stained glass see 022.348
 - Position of windows; size and number; shape. Provision for opening: sliding, hinged or pivot sash, French casement
 - .72 Skylights
 - .73 Prisms
 - .74
 - .75 Artificial lights: materials
 - .751 Lamps, oil, etc.
 - .752 Gas
 - .753 **Acetylene**
 - .754 **Electricity**
 - .76 Fixtures
 - .762 Portable or semiportable lights
 - .763 Table lights
 - .764 Standards
 - .765 Bracket lamps
 - .766 Chandeliers
 - .77 Lighting of stacks by electricity
 - Fixed or movable lights
 - .8 **Heating and ventilation**
 - General hygiene of library. Divided like 697

- 022.9** **Fixtures, furniture, fittings**
- .91 General furniture
 - .911 Chairs
 - .912 Tables
 - .913 Desks
 - .914 Revolving cases
 - .915 Bases
 - .916 Vertical files
 See also 651 *Office equipment*
 - .918 Counters
 - .92 Public conveniences
 - .921 Hatracks
 - .922 Umbrella stands
 - .923 Clocks
 - .924 Bulletin boards
 - .93 Furniture for exhibiting or using books, pictures, etc.
 - .931 Exhibition cases, fixed or movable
 - .932 Wing frames
 - .933 Easels
 - .934 Reference book holders
 - .935 Magazine and newspaper racks, files, etc.
 - .94 Appliances for getting or carrying books or messages
 - .941 Ladders, stepladders
 - .942 Book trucks
 - .943 Carrying trays
 - .944 Mechanical carriers
 See also 621.867 *Conveyers, Telferage*
 - .945 Book lifts
 - .946 Pneumatic tubes
 - .947 Speaking tubes
 - .948 Interdepartment telephones
 See also 621.3853 *Intercommunicating telephones*
 - .95 Elevators
 For carrying persons, goods, etc. See also 621.877. Class here only discussion of them for library use. For book lifts see 022.945
 - .96 Floor coverings
 For permanent flooring see 022.356
 - .961 Linoleum, corticine
 - .962 Matting
 - .963 Carpets
 - .964 Rugs
 - .965 Door mats: rubber, wire, etc.
 - .97
 - .98
 - .99 Desk fittings, etc.
 Divided like 651

023 Government and servis Personnel

For government of special kinds of libraries see 026 and 027

- .1 **Constitution and bylaws for governing board**
Charters. Local ordinances, etc.
- .2 **Appointment and tenure of offisers under governing board**
State or local civil servis. Special library examinations. Promotions. Probationary appointments. Temporary or limited period appointments. Appointments by executiv offiser
- .3 **Governing board**
Trustees, committees, directors, regents, etc.
- .31 **Method of selection**
Election, appointment, exofficio trustees, close corporation, i.e. selfperpetuating body
- .32 **Number**
- .33 **Qualifications**
- .34 **Women as trustees**
- .35 **Powers and duties**
- .36 **Financial administration**
- .37
- .38 **Time and place of meetings**
- .4 **Executiv Consulting librarian Library expert**
For appointment see 023.2. See also 023.5-.9, which apply to executiv as well as to staf
- .43 **Responsibilities and privileges**
- .5 **Staf**
Including all subordinate positions. For method of appointment see 023.2
- .51 **Qualifications**
- .52 **Personality Character Moral and social equipment**
- .53 **Mental equipment Natural ability**
- .531 **General education**
- .532 **Professional education Training** *use 020.7*
See also 020.7 Library schools
- .535 **Reading of librarians**
- .54 **Physical equipment Helth Exercise**
- .55 **Staf meetings Relations to hed**
- .56 **Women as librarians**
Including difference in salaries of men and women
- .57 **Worries and trials**
- .58 **Longevity**
- .59 **Library benefit associations**
See also 020.626

- 023.6 Daily hours Holidays and vacations**
- .61 Daily hours
 - .611 Records Record clock
 - .612 Punctuality Tardiness
 - .62 Hours for meals Lunch room
 - See also 022.6 Special rooms
 - .63 Special work
 - .631 Evening
 - .632 Sunday
 - .633 Holiday
 - .64 Work by hour Overtime, extra hours
 - .641 Making up lost time
 - .642 Payment for overtime
 - .643 Effect of overstrain on employees
 - .644 " " on servis
 - .65 Holidays
 - .651 Weekly half holiday
 - .652 Legal holidays
 - .66 Vacations
 - .661 Time of year
 - .662 Length
 - .663 Continuous or in instalments
 - .664 Sabbatic year
 - .67 Absences for sickness or other causes
 - See also 023.641 Making up lost time
 - .68 Attendance at meetings
 - .681 International
 - .682 National
 - .683 State
 - .684 Local
 - .7 **Titles and duties**
 - .701 Specialization Monotony Change of work
 - .702 Understudies
 - .71 Executiv Director
 - Chief or principal librarian, keeper, etc.
 - .72 Department, division or section heds
 - Librarians, sublibrarians, chiefs, heds
 - .73 Reference staf or faculty
 - Librarians of special subjects
 - .74 Assistants Catalogers

LIBRARY ECONOMY

- 023.75 Pupil assistants, apprentices, volunteers
 - Paid mainly by instruction
- .76 Clerical servis
- .761 Stenografers
- .762 Typewriters
- .763 Clerks
- .77 Mechanic servis
- .771 Binders
- .772 Electricians
- .773 Carpenters
- .774 Other mechanics
- .78 Pages, messengers, ushers, runners
- .79 Janitor servis
- .791 Janitor
- .792 Watchman
- .793 Elevatormen
- .794 Attendants, in coat room, etc.
- .795 Porters and packers
- .796 Cleaners, etc.
- .8 **Remuneration: salaries, pensions**
 - Divided like 023.7. See 023.56 for difference between salaries of men and women
- .9 **Rules for staf Codes**
 - Made by trustees or librarian
 - For punctuality see 023.612. For absences or sick leave see 023.67
- .91 Conversation
- .92 Personal calls or work
- .93 Soliciting money, subscriptions, contributions
- .94 Respect and care for library property
- .95 Uniforms
- .96 Curtesy Indifference
 - See also 174 Business ethics; 177.1 Curtesy (social ethics)
- 024 **Rules for readers**
 - For reference and circulating departments
- .1 **Readers qualifications**
- .11 Age
- .12 Residence
- .13 Relations to community
 - Membership in society, club or institution; official position; profession, etc.
- .14 Responsibility
 - Reference, guarantor, money deposit
- .15 Registration
- .16 " for limited period

- 024.2 Fees Assessments Free use**
- .21 Membership fees
 - Mercantile libraries, atheneums
 - .22 Book fees
 - Circulating library fees. For fines see 024.6
 - .23 Fees for readers card, etc.
 - For petty expenses to guard against wastefulness
 - .24
 - .25 Extra library fees; e. g. college library
 - .26 Public library fee
 - For subscription departments see 024.7
 - .27
 - .28 Free use
 - .3 Hours of opening**
 - .31 Number of hours
 - .32 Time of day: morning, afternoon
 - .33 Evening opening
 - .34 All night "
 - .35 Intermission for meals
 - Closing library during lunch, dinner or supper hours
 - .36 Hours for reference and circulating departments
 - .37 Cooperation of local libraries
 - Agreement on hours so that some library shall always be open
 - .4 Days of opening or closing**
 - .41 Sunday
 - .42 Special religious days
 - .43 Holidays
 - .44 Vacation, summer
 - .45 Inventory Examination
 - Closing for annual examination of library
 - .46 Special occasions
 - Closing for recataloging or rearrangement; public calamity, deaths
 - .47 Closing for epidemics
 - .5 Reference use**
 - .51 Reading room rules
 - .52 Decorum in library
 - Unwelcome visitors; library cranks
 - .53 Ladies in reading room
 - For women's separate reading room see 022.57
 - .54 Access to catalogs
 - For access to librarian see 023.43
 - .55 Open reference shelves
 - .56 Open shelves in general
 - .57 Restricted or selected access to shelves
 - Restriction as to persons or subjects
 - .58 Library censorship of news
 - Obliteration or suppression. in reading room copies, of newspaper reports tending to lower morals; e.g. betting and racing news, reports of crime, criminal trials. See also 021.201 Paternalism

LIBRARY ECONOMY

- 024.6 Home use Loans**
- .61 Number of books
 - .611 Two book system
 - .612 Summer vacation cards
 - .62 Time: 7-day books, new periodicals
 - .63 Delinquencies Fines
 - For injuries, etc. see 024.8
 - .64 Renewals
 - Extension of loans by library
 - .65 Relending
 - Lending by borrowers
 - .66 Reservations
 - .67 Restricted books
 - .671 Reference
 - .672 Rare or costly
 - .673 Medical
 - .674 Of immoral tendency Library inferno
 - See also 021.201 Paternalism
 - .68 Interlibrary loans
 - .681 International loans
 - .7 Special privileges**
 - .71 Extra books Teachers cards
 - .72 Extra time
 - .73 Remission of fines Excuses
 - .74 Favor classes: trustees, faculty, staf
 - .77 Lending restricted books
 - .78 Subscription department
 - Novels and popular new books lent for fee. Extra copies for rent in public (tax supported) libraries
 - .8 Injuries Abuses**
 - .81 Defacements
 - Marks; corrections, notes and comments
 - .82 Mutilation
 - .83 Removal of plates, maps, etc.
 - .84 Mutilating newspapers
 - .85 Losses by readers; payment
 - .86 Thefts
 - .87 Restitutions
 - .88
 - .89 Prevention of abuse
 - Methods of preventing injury and inducing better care of books. For library leag see 027.6
 - .9 Other rules**

025 Administration Departments

SUMMARY

Supervision	025.1	Executiv
Acquisition	.2	Accession
Utilization	.3	Catalog
	.4	Classification
	.5	Reference
	.6	Loan
Preservation	.7	Binding
	.8	Shelf
	.9	Carc of bilding

025 is for the librarian's part. The trustees bild and furnish (022); make rules for government and servis (023), and regulations for readers (024); but the administration involvs questions of its own, which, however, ar closely allied to topics in 021-024 and elsewhere; e. g. the librarian must know his side of binding, and be able to giv proper directions and supervision, but need not know all the details of the binder's craft (686)

Administration includes .1 Supervision .2 Acquisition .3-6 Utilization .7-9 Preservation; i. e. the librarian's duty to books is to Get, Use, Keep

- .I **Executiv** **General supervision**
- .II **Finances**
 - See also 023.36 Financial administration of governing board
 - .III Invested funds, endowments, gifts
 - See also 021.9 Support
 - .II2 Appropriations: local or state
 - See also 021:8 Libraries and the state
 - .III3 Other money receivd
 - Fees, assessments, fines, payments for special servises and investigations, etc.
 - .II4 Accounts: receipts and expenses, bookkeeping
 - .II5 Salary payments Staf payrolls
 - See also 023.8 Salaries
 - .II6 Expenses: fittings, supplies and incidentals
 - Class with a department supplies peculiar to it, their kind, quality, cost, etc.; e.g. catalog cards with 025.3. For bookbuying see 025.2
 - .II7
 - .II8 Cost of preparing books for shelvs
 - .I2 **Printing and publications**
 - Both preparation of material and details of printing, including size, style, type, etc.
 - .I21 Blanks and forms, stationery
 - If relating to a special department class with it; e.g. bookplates in 025.2
 - .I22 • **Publications**
 - .I23 **Reports and statistics**
 - See also 027
 - .I24 **Catalogs**
 - See also 017-019. For cataloging see 025.3
 - .I25 **Bulletins**
 - Frequency, advertisements, etc. See also 017-019. For preparation of book lists see 025.3; for newspaper publication of new book lists, see 021.74
 - .I26 **Library magazine or paper**
 - .I27
 - .I28
 - .I29 **Duplicating by neostyle, carbon, etc.**
 - For machines and processes see 652. Class here discussion of fitness for library applications only

LIBRARY ECONOMY

- 025.15 Correspondence
 - .151 Stationery
 - Material, weight, size and headings
 - .152 Stenografers, dictation machines
 - .153 Typewriters
 - .154 Copiers
 - Roller, press, carbons, portable. See also 025.129
 - .156 Letter files
 - See 651 for methods
 - .17 Treatment of special material
 - For general discussions of arrangement, care and use. Class special work under each department: e.g. cataloging of incunabula in 025.3
 - .171 Manuscripts, archives and rarities
 - Divided like 090
 - .172 Pamflets
 - .173 Serials, documents, etc.
 - 1 Periodicals, magazines, etc.
 - 2 Newspapers
 - 3 Annual reports
 - 4 Documents; national, state and local
 - .174 Broad sides
 - .175 Clippings
 - .176 Maps and charts
 - .177 Art material
 - Engravings, fotografs, drawings, lantern slides
 - .178 Music: scores, rolls, etc.
 - .179 Museum material
 - .18 Administration of individual libraries
 - Alfabet by name of library. For administration of special kinds of libraries see 026 and 027

025.2 Accession Acquisition

SUMMARY

- 025.21 The library and its selection
 - .22 Methods of acquisition
 - .23 Ordering and receiving
 - .24 Accessioning
 - .25 Marks of ownership
 - .26 Duplicate and exchange department
 - .29 Special material
- .21 The library and its selection
- .211 What? Proper proportion of subjects
 - Division of funds; endowments for special subjects; accession statistics
- .212 Specialization by libraries
 - Division of subjects among local libraries. See also 021.64 Cooperation. For collections on special subjects, economics, science, etc. see 026
- .213
- .214 Who? Selectors of books
 - Trustees or trustee committee; librarian; staf committee, book board; advisory committee from outside; experts; central body (bibliographic bureau, state commission, etc.)
- .215 How? Methods of selection
 - Recommendations by readers; personal examination; visits to book stores; books sent on approval: printed reviews; first selection for new library. Want lists, books under consideration
 - For lists of best books, A L A catalog, annual lists, etc. see 016
 - For principles of selection and choice of editions see 028.2
 - For selection for special classes see 027.6, 027.8, 028.5
- .216 Buying fiction
 - Duplicating popular fiction; extra copies of best fiction
- .217 Rejection, exclusion, censorship
 - Pernicious literature; badly made books; yellow journals See also 021.201 Paternalism
- .218 Weeding out, sifting
 - Separating books no longer of servis to library. For withdrawal book see 025.249
- .22 Methods of acquisition
- .221 Buying new books
 - Local bookstore; book center, general agent; publishers; subscription agent; bids on special lists; foren books thru home or American agent, thru foren agent. See also special material 025.29
- .222 Prices Discounts
 - Net books. For free importation, see 021.861
- .223 Buying old books
 - Secondhand catalogs; remainders, trade sales; dealers in old books, bookstalls; value of old books
- .224 Auctions
 - For auction catalogs. see 017-019
- .225 Buying libraries in block
- .226 Exchange
- .227 Gifts
 - Request blanks and records; gift lists; acknowledgments; privately printed books; propagandist books
 - For government documents and copyright books see 021.84
 - See 025.268 for gifts from library to library

LIBRARY ECONOMY

- 025.23 Ordering and receiving
 For gifts, see 025.227; for exchanges, see 025.266
- .231 Ordering
 Order slips or lists; order books or sheets; copies of orders; order index; order numbers
- .232 Examination for duplicates and verification
 Misspelled names; changed titles; separates
- .233 Reception and opening
 Express, mail, etc; frequency of shipments; free delivery
- .234 Checking bills
 Prices and amounts
- .235 Collation
- .236 Receipt index
- .24 Accession book
- .241 Importance of record
 Accession book vs shelflist, etc.
- .242 Printed headings Items Fulness of entries
- .243 Accession number: volume, work or invoice
- .244 Accession stamp
- .249 Withdrawal book
- .25 Ownership marks
- .251 Private marks
- .252 Stamping
 Ink, embossing, or perforating stamp. Table and foot power
- .253 Book plates Plating
 See also 097
- .254 Library name on outside of book
 Gilding or impressing name of library on back or covers
- .255 Card pockets
- .26 Duplicate and exchange departments
- .261 Duplicates
 Definition, rules and decisions, marking, stamp, plate, etc.
- .262 Duplicates of institution's own publications
 Either of library or larger organization including it; e.g. duplicate Columbia publications in Columbia university library; stock on hand
- .263 Cataloging
- .264 Arrangement
- .265 Sale for cash
- .266 Exchange
 General exchange of publications; exchange accounts
- .267 Clearing house for duplicates
 See also 021.852 Vattemare international exchanges, Smithsonian exchanges
- .268 Gifts to other libraries
- .269 Deposits
 By large libraries in small or in hospitals, prisons, etc. also deposits in great collections by individuals or small libraries. See also 025.218
- .29 Special material
 Divided like 025.17

025.3

Catalog

For printed catalogs themselves, see 017-019. This is for *cataloging*
 Printed, manuscript, or card; Author, subject, title, class; Dictionary or
 combined; Cooperativ rules; Size notation; Cooperativ cataloging;
 Duplicated titles, print or photography; Mechanical accessories, cards,
 cases and fittings, drawers, trays, blocks, checks, guides, labels

4

Classification

For philosophic classification of knowledge, see 112 Methodology. This is
 for practical classing of books, pamphlets, and notes, rather than theo-
 retic speculation
 On shelves; in catalogs; in dictionary catalogs; Systems of notation, fig-
 ures, letters, symbols, combined; Importance and advantages; Diffi-
 culties; Close vs broad classing; Mnemonic features; Basis of division;
 Coordination of special subjects

.5

Reference Reference books Aids to readers

See 028 for general discussion of reading and aids. This is limited to
 library administration

.6

Loan

See 024.1 and 024.6 for regulations
 Indicators; Charging systems, legers vs cards; Book cards, marks, pockets;
 Call slips, readers cards; Notices, reservs; Registers; Interlibrary loans;
 Mechanical accessories, slip cases, trays, tills, stamps, etc.

.7

Binding and repair

See also 686 Bookbinding
 Materials, durability, tight vs spring backs, sewing, color, lettering; Paper
 covers and temporary binders; Restoring, mending, cleaning, and oiling

.8

Shelf

See also 022.9, Shelving
 Arrangement; Shelf numbers; Shelf and book labels; Fixt and relativ
 locations; Sizes of shelves; Arrangement and preservation of public
 documents, pamphlets, papers, manuscripts, maps, drawings, and plans,
 music, broadsides, clippings; Chaind books; Injuries, heat, gas, insects;
 Stock taking; Shelf lists

.9

Bilding: care, cleaning, safety Janitor Police

See 022 for bilding and fittings. This is janitor's department

026 Libraries on special subjects

Histories, reports, statistics, bulletins, handbooks, circulars, and everything about the library not more required in preceding sections. Subdivided by adding the class number of subject; e. g. a Medical library is 026.61; a Chess library, 026.794; but the *catalog* of a chess library is 016.794. Blanks, etc. from any library go under subjects in 025, as more used in studying topics; but, if history of individual libraries is specialized, duplicates are also desirable under the library in 026-7, thus making a complete set of its publications

027 General libraries

This includes both circulating and reference; i. e. all not limited to special subjects

Subdivided if wisht by countries, like 930-999; e. g. 027.744 College Libraries in France. Or if wisht, group all by geografic location, using 0 in 4th place to indicate no division by *kinds* of libraries; e. g. 027.044 Libraries of France; 027.07471 Libraries of N. Y. city

A private library is still class 027.1, after it has been sold or merged in a public library. But a society library changed to a free public should take 027.4 for all publications after the change

.1 Private and family

.2 Proprietary, society, club and Atheneum

.2 is limited to libraries that are semiprivate; requiring an election for admission, while .3 includes all open to any one on payment of a fee. It is the difference between a club and a hotel. .3 is for libraries run as a business. A mercantile library, even tho it has endowments, if open without individual election, goes in .3 as a subsidized public subscription library. Many private subscription libraries go in .2

.3 Subscription Circulating

Mudie's, Booklovers, etc.

.4 Free public Rate supported Endow

Public library commissions. See also 331.85; and 027, last note

.42 Special kinds of public libraries

General discussion of county or rural libraries, etc.

.5 State and government

.6 For special classes

Institution, prison, reformatory, asylum, blind, monastic, workmen's, factory, railroad, sailors, lighthouse. A workmen's library of books on engineering is 026.62, not here, as the subject is more useful than the class of readers

.7 College, university

For libraries of professional and technical schools see 026

.8 School Sundayschool Parish

See also 371.64 Libraries as school equipment; 021.3 Library in relation to schools and the young

.9 Free newsrooms and reading rooms

See also 331.85

028

Reading and aids

See 374.1-2 Self education by private reading and reading circles

.1

Methods

Tasting, skipping, reviewing, making synopses, abstracts, extracts, and index rerums (see 029), book marking

.2

Choice of editions

Annotations, indexes, paper, type

.3

Courses of reading

Both discussion and lists of books

For sets of books representing prescribed courses for general culture, e. g. *Harvard classics*, see 080

.4

Fiction Novel reading

Discussion. Short selected lists may be put here, tho all fiction lists are better together in 016.823 (in German libraries 016.833, French libraries 016.843, etc.)

.5

Reading of young Juvenils

Both discussion and lists of books

.6

Professorships of books and reading

Lectures. Stimulus and guidance in schools

.7

Use of reference books

.8

Aids to readers

Guidance, printed or personal. See also 028.6 and 025.5

.9

Character of reading in libraries

029

Literary methods and laborsavers

Much in 025 and 028 belongs equally under 029 in its full meaning, but practical convenience is best served by referring to 025 and 028 insted of repeating the heds

.1

Methods

Exact reference; standard sizes; use of colors; thought study; intercalation or card system (see 025.3); cooperativ methods; records vs memory, etc. See 653 Abbreviations and shorthand; 154.1 Mnemonics; 025.4 Classification

.1 is for what one *learns* how to do by an improved *method*

.2 is for articles which one must make or buy in order to utilize. Where a pamphlet covers both appliance and method, class with predominant feature

.2

Appliances Laborsaving tools and devices

See also 651. Most literary laborsaving devjces go also under 651, Offis equipment and methods; and are best kept together there; e. g. all offis and study furniture, fittings and supplies, cases, bookholders, reading desks, pigeonholes, files, etc. For pamphlet, map, etc. cases, see 025.8; for binders, 025.7

.3

Clippings Scrapbooks or files

See also Files, 651

.4

Notebooks, notetaking, abstracting, etc.

.5

Indexing Index rerums Printed and patent indexes

For alfabeting and transliteration see 025.3

.6

Authorship Writing for press Copy and proof

See also 655.25 Proofreading; 655.52 Relations to publishers

.7

.8

.9

GENERAL WORKS

030 **General cyclopedias**

Subdivided by using for 3d figure; 1, American; 2 English; 3 German; 4 French; 5 Italian; 6 Spanish; 7 Slavic; 8 Scandinavian; 9 Other; e.g. American cyclopedias, 03 1

040 **General collected essays**

Subdivided like 030

050 **General periodicals Magazines**

Subdivided like 030

060 **General learned societies Museums**

Subdivided like 030

Academies of Paris, Berlin, Vienna, etc. Societies on a specific subject go with that subject; e. g. 550.6 Geologic societies. See also 360 Institutions and associations, for philanthropic, political, social and similar organizations

070 **Journalism General newspapers**

See also 029.3 Clippings Clipping bureaus
179.1 Morals of the press
323.445 Liberty of the press (political science)
351.751 Regulation of the press (government administration)
396.507 Women in journalism
655 Printing Publishing Copyright
741 Cartoons Caricatures

.1 **Utility Theories Relations to other professions**

For government relations see .070.15

.11 **Standards Ethics Influence Responsibility**

General and higher view, educativ influence; for degradation of the press see 070.16

.12 **Endowd newspapers**

Independence of popularity

.13 **Liberty of the press Censorship**

Individual privacy; diplomatic secrets; seditious or anarchic influence

See also political science, 323.445 Freedom of the press

.14 **War censorship**

.15 **Subservience to special interests**

Use by sectarian, partizan or private interests. Government relations and influence: subsidies, 'reptil fund'

.16 **Sensational or 'yellow' journalism**

Fictitious news; scandals, murder and divorce trials; blackmail, bribes

.17

.18 **Anonymous journals**

Those with editors or place of publication unknown

.19 **Other general questions**

Comparison of field, importance and influence of newspaper, periodical and book

.2 **Ownership and control**

.22 **Newspaper names**

.23 **Location**

.232 **Metropolitan Large city**

.234 **Provincial Small city**

.236 **Rural or village**

.26 **Syndicates Patent insides**

- 070.3 Business management**
- .31 Staff and workmen
 - .311 Offis staff
 - Manager, stenografers, bookkeepers, clerks, messengers
 - .312 Workmen
 - Compositors, foundrymen, pressmen, mechanics, laborers
 - .315 Hours, shifts
 - .318 Newspaper strikes
 - .32 Newspaper printing
 - Class here discussion of economy and other advantages of special methods and appliances
 - For mechanism and operation of newspaper presses see 655.31 Printing presses
 - .321 Size of page
 - .322 Methods and appliances
 - 2 Composition: linotype, monotype, etc.
 - 3 Stereotyping
 - 4 Presses
 - .324 Newspaper cuts: wood, zinc line, halftone
 - .325 Frequency of issue
 - Daily, semiweekly, weekly, etc.
 - .327 Time of issue
 - Morning, evening, successiv editions, extras
 - .328 Size of editions, number printed
 - .33 Distribution Circulation Sale
 - .331 Direct: subscription Mailing
 - .332 House delivery
 - .334 Indirect: newsboys, news agencies, etc.
 - Crying and peddling in streets and news stands
 - .336 Advertizing methods
 - Subdivided like 659.1 Advertizing
 - .337 Specialties
 - As means of increasing circulation. For special departments see 070.43
 - Regular: foren or marine news, stocks, sporting, etc.
 - Occasional: adoption of popular causes, exposure of abuses, etc.
 - .338 Other means of increasing circulation
 - Competitions, guessing contests, prizes, fairs, lotteries, expeditions, etc.
 - .34 Cost of production Expenses
 - .341 Plant: bilding and equipment, offises
 - Duplicate plant. Depreciation of machinery
 - .343 Supplies: paper, stationery, etc.
 - .344 Salaries and wages
 - Space rates. Pay of journalists, pecuniary inducements of vocation, Traveling expenses
 - .345 Postage: pound rates, free carriage
 - .348 Advertizing
 - Necessity and cost of advertizing itself to gain circulation and secure advertizements. For methods see 070.336
 - .349

JOURNALISM

- 070.35 Sources of income Receipts
 - Sales, subscriptions, subsidies. For bribes see 070.16
- .36 Adverting department
 - Including all business pertaining to a journal's advertizing colums. For advertizing agencies see 659.1
- .39 Foren offices
 - Subdivided like 940-999; e.g. *N Y herald* office in Paris 070.3944
- .4 Editorial management
- .41 General
 - Editing rules: order of departments and articles; style; newspaper diction
- .42 Staff: reporters, correspondents
 - Organization: hours, duties. For pay see 070.344
- .43 Editorial departments
- .43 I News
 - 1 Sources and channels of news
 - Telegraf, telephone, wireless, mail, reporters, carrier pigeons, other Utilization and precautions; conflicting news
 - 2 Press bureaux: associated press
 - Laffan and other news bureaux. For clippings see 029.3 under Literary methods and labor savers
 - 5 Foren
 - 6 Home
 - 7 Local
- .432 Leaders, editorials
- .433 Local interests
 - Discussion of local affairs, questions affecting schools, library, public works, etc. For local *news* department see 070.4317
- .44 Special subjects: departments and editors
- .443 Financial: stocks, business, shipping, etc.
- .445 Household Home Women Children
 - 2 Cookery
 - 4 Clothing Fashions
 - 6 Hygiene Care of children
 - 7 Women's clubs
 - 8 Children's department: games, puzzles, etc.
- .446 Recreation Sporting
- .447 Art, musical and dramatic
 - 7 Art
 - 8 Musical
 - 9 Dramatic
- .448 Literary
 - 1 Poetry
 - 3 Fiction
- .449 Other departments
 - 2 Religion; 3 Education; 5 Science; 8 Humor

- 070.45 Voluntary correspondents Contributors
 .47 Special editions
 Sunday newspaper. Supplements. For extras see 070.327
 .48 Special kinds of journals
 .481 Official journals
 .482 Religious
 .483
 .484 For foren population
 In language foren to country in which publisht
 .485 Propagandist
 .486 Professional and technical
 .487 Humorous
 .488 Literary
 .489 Other: amateur, etc.
- 070.5-9 Form divisions
- .5 Periodicals on journalism
 .6 Press clubs Conventions Expositions
 .7 Study and teaching of journalism College courses
 Schools Personal qualifications for journalism
 .9 History of newspapers and journalism
 General History of American newspapers 071, of German journalism 073
 etc. Class history of a particular journal with that journal

071-079 Newspapers of various countries

The 3d figures 1-9 are used as follows:

1 American	4 French	7 Slavic
2 English	5 Italian	8 Scandinavian
3 German	6 Spanish	9 Other

In large collections use geografic divisions under 1, American; 2, English, etc. as in 970 and 940-999. Because of large size and very general character, it is better to keep newspapers together here than to class with local history of the place where publisht. They could not go on shelves with ordinary books, and a reference is made as easily to them under 070 as anywhere.

080 Special libraries Polygraphy

For sets or 'libraries' so constituted as not to be readily scattered by subjects, and miscellaneous information; but class in 803 literary questions and answers, even tho not alfabetic. Collections conditiond by terms of gift on being kept together may be put here, but for preferable treatment of sets, see Introduction p. 28^o, section 10, and p. 35³ under Reference library. If limited to a special subject, treat like Phoenix library, but shelv the collection in a block before or after the regular books on the same subject; e. g. the Doe collection on Spanish painting, D759.6, would stand together, yet would be where it belonged with the rest of the books on that subject.

090 Book rarities

Books about these topics, and those chiefly valuable because of their rarity, go here. A rare early edition of Shakspere goes in 822.33 with reference from 099. 090 is mostly used for grouping references to books located elsewhere.

091 Manuscripts Autografs

Class in 096 mss important chiefly for illumination. Photographs of mss, when more valuable for subject matter, go with subject rather than here
For Diplomatics and Paleography, see 417, and under the special language, 421.7, 431.7, etc.

092 Block books

093 Early printed books Incunabula

Colophons

094 Rare printing

Aldines, Elzevirs, Caxtons, etc. Privately printed books; unique books

095 Rare binding

Noted binders, costly ornaments, curious bindings

096 Rare illustrations or materials

Illuminated Illustrated by inserted plates Printed on vellum, silk, bark, etc. in gold or silver letters, etc.

097 Ownership Book plates Ex libris

098 Prohibited Lost Imaginary

099 Other rarities Curiosa Minute size, etc.

Philosophy

100 **Philosophy in general**

Works limited to none of the 9 divisions

- 101 Utility
- 102 Compendis, outlines
- 103 Dictionaries Cyclopedias
- 104 Essays, lectures, addresses
- 105 Periodicals Philosophic magazines
- 106 Societies: transactions, etc.
- 107 Study and teaching of philosophy
- 108 Polygraphy, extracts, maxims, etc.
- 109 History of philosophy

110 **Metaphysics**

111 Ontology

Nature of being Substance and form

112 Methodology

Philosophic classification of knowledge Terminology For book classification
see 025.4

113 Cosmology

Philosophic theories and discussion; for philosophy of mathematic processes
see 510.1

114 Space

115 Time

116 Motion

117 Matter

118 Force

119 Quantity Number

- I20 Other metaphysical topics**
- I21 Theory of knowledge Origin Limits
Dout, denial, belief
- I22 Causation Cause and effect
- I23 Liberty and necessity
See also 233.7 Freedom; 234.9 Predestination; 159 Will
- I24 Teleology Final causes
- I25 Infinit and finite
- I26 Consciousness Personality See also 233.6 Doctrin
- I27 Unconsciousness Automata
- I28 The soul See 218 Natural theology; 237 Future state
- I29 Origin of the individual soul
- .1 By special creation See also 213 Creation
- .2 By inheritance Traduction
See 575.1 Evolution; 136.3 Mental heredity; 233.3 Spiritual heredity
- .3 Pre-existence
- .4 Transmigration Palingenesis
- .5 Emanation See also 147 Pantheism; 212 Natural theology
- I30 Mind and body Anthropology**
Psychic research
- I31 Mental physiology and hygiene
New thought. For influence of mind on body, mind cure, etc. see 615.851; see also 612.8 Physiology of nervous system, 613.8 Hygiene of nervous system
- I32 Mental derangements
See also 616.8 diseases of nervous system
- .1 Insanity See 362.2 Asylums; 920.8 Lives; 616.84 Disease
- .2 Idiocy See 362.3 Asylums; 920.8 Lives; 371.922 Education
- .3 Hypochondria Melancholy See 616.852 Hysteria
- .4 Catalepsy See 616.852 Hysteria
- .5 Ecstatics
- .6 Kleptomania and other leading to crime
- .7 Dipsomania and other leading to vice
See also 178 Temperance; 616.861 Alcoholism
- .8 Mnemonic derangements
Not knowing in one state what past in another. See also 154 Memory
- I33 Occultism Witchcraft Magic**
- .1 Apparitions Ghosts
- .2 Hallucinations
- .3 Divination Oracles Second sight Omens Predic-
tions
- .4 Witchcraft Sorcery See also 272.8 Persecutions
- .5 Astrology See also 520.1 Astrology
- .6 Palmistry
- .7 Humbugs Quackery
- .9 Spiritism Table-tipping, etc. See also 289.9 Sects
- I34 Mesmerism Animal magnetism Clairvoy-
ance**

135 Sleep Dreams Somnambulism
 136 Mental characteristics

See also 131 Mental physiology

- .1 **As influenced by sex**
 See also 376.2 Mental capacity of women
- .2 " " " **physical surroundings**
 See also 575.3 Evolution; 573.4 Natural history of man
- .3 " " " **ancestry (Mental heredity)**
 See also 575.1 Evolution; 233.3 Spiritual heredity; 129.2 Origin of soul; 613.92 Hygiene
- .4 " " " **race Racial characteristics**
 See also 572 Ethnology
- .5 " " " **age**
 See also 136.7 Childstudy
- .6 " " " **physical structure and conditions**
- .7 **Childstudy Paidology**
 Including adolescence
- .702 **Methods**
 1 Laboratory
 2 Home
- .708 **Observations, records Albums**
- .71 **Body: structure, growth, care**
 Limited to development period
 See also 136.3 Mental heredity 612.65 Growth
 371.7 School hygiene 613 Hygiene
 612.64 Embryology 613.9 Heredity
- .72 **Mind**
 Limited to period of physical development
 In a general library better class in 130 and 150 with only references here
- .73 **Mental characteristics**
 Grouped by influence like 136.1-.6
- .74 **Children's point of view**
 Divided like the classification: e. g.
 .7417 Ethics .7479 Games
 .742 Religion .748 Literature
- .75 **Delineation of children**
 Psychology of children from authors' and artists' point of view
- .757 **In art**
- .758 **In literature**
- .76 **Abnormal children**
 Study of development. For methods of instruction see 371.9
 For institutions see 362, 364
- .761 **Physically defectiv**
- 1 **Blind**
- 2 **Def**
- 3 **Blind-def**
- .762 **Mentally defectiv**
 Divided like 132 Mental derangements; e.g. study of idiotic children
 136.7622
- .763 **Morally defectiv Delinquents**
- .764 **Wildings**
 Wildings: a class of children which, having been lost or deserted, have grown up away from the surroundings of children, alone or among animals.
Paidology 1: 196 (July 1900)

136.8 charact reading

- 136.765 Exceptionals Precocity
- .766 Backward children
- .767 Dependents
 - Homeless children, a public charge, lacking ideas and associations of children in families
- .769 Other abnormal classes
- .77 Boys The 'gang' The boy problem
- .79 Childhood Divided like 930-999
- .791 The child among uncivilized and semicivilized peoples
- 137 Personality
 - Temperaments, idiosyncrasy
- 138 Physiognomy
 - Expression of mentality thru the body
- 139 Phrenology Mental photografs, etc.
- 140 **Philosofic systems**
 - The heds 140-149.9 are for the discussion of the systems as such. The philosofic works of authors of these various schools are clast under 190, not here. From these heds refer in the catalogs to authors clearly falling under them, without attempting to label each writer as an exponent of some one system
- 141 Idealism Transcendentalism
 - e. g. Plato, see 184.1, 888.4; Berkeley, see 192.3; Fichte, see 193.3; Emerson, see 191.3, 814.36
- 142 Critical filosofy
 - e. g. Kant, see 193.2
- 143 Intuitionalism
 - e. g. Reid, see 192.5; McCosh, see 191.5. See also 156 Intuitiv faculty; 171.2 Ethics.
- 144 Empiricism
 - e. g. Descartes, see 194.1; Bacon, see 192.1
- 145 Sensationalism
 - e. g. Locke, see 192.2
- 146 Materialism Positivism
 - e. g. Hobbes; Comte, see 194.8 See also 149.2 Realism
- 147 Pantheism Monism
 - e. g. Spinoza See 212 Natural theology
- 148 Eclecticism
 - e. g. Cousin, see 194.7
- 149 Other filosofic systems
 - See 211 Rationalism, skepticism; 214 Fatalism
- .1 Nominalism
- .2 Realism See 146 Materialism
- .3 Mysticism See 273.2 Heresies; 189.5 Medieval filosofy
- .4 Associationalism
- .5 Optimism Meliorism
- .6 Pessimism
 - e. g. Schopenhauer, see 193.9 See also 216 Evil; 233 Doctrin of man
- .7 Agnosticism
 - See 273.8 Agnostic heresy
- .8 Nihilism
- .9 Other systems

150 Mental faculties Psychology

For related topics, see Mental in Relativ index following Tables

- 151 Intellect Capacity for knowing**
.1 Genius
- 152 Sense Sense perceptions**
 See also physiology 612.84-88
Passiv or receptiv faculty
.1 Vision
.2 Hearing
.3 Smell
.4 Taste
.5 Touch
.6 Muscular sense
- 153 Understanding**
 See also 612.821 Physiologic psychology
Activ or thinking faculty
.1 Conception The concept or notion
.2 Association
.3 Abstraction
.4 Reflection
.5 Judgment
.6 Reasoning Induction and deduction
 See also 160 Logic
- 154 Memory Reproductiv power**
 See also 132.8 Mnemonic derangements
.1 Mnemonics
- 155 Imagination Creativ power**
.1 Fancy Imaging power
- 156 Intuitiv faculty Reason**
 For reasoning, see 153.6
- 157 Sensibility Emotions Affections**
- 158 Instincts Appetites**
- 159 Will**

150 Psychology

- 0.1 Experimental psychology
- .17 Educational "
- .19 Animal "
- .2 Child psychology and welfare
- .202 " " Methods
- .2021 " " Mental tests
- .203 _____
- .204 _____
- .205 Child psychology Periodicals
- .206 " " Proc. of associations
- 60 .21 Periods of development
- .211 " " " Infancy
- .212 " " " Childhood
- .213 " " " Adolescence
- .262 Child labor
- .263 Backwardness
- .264 Defectives Children of the poor

172 State ethics

- .1 Individuals and the state Duties of citizens Patriotism
See also 320 Political science
- .2 Duties of public officers Official corruption
- .3 Relations to church
Duty of state as to support and protection of church
See also 261.7 The church; 322 Church and state; 272 Persecutions
- .4 International ethics Peace and war
See also 341 International law

- 154 Memory Reproductiv power
 See also 132.8 Mnemonic derangements
 .I Mnemonics
- 155 Imagination Creativ power
 .I Fancy Imaging power
- 156 Intuitiv faculty Reason
 For reasoning, see 153.6
- 157 Sensibility Emotions Affections
- 158 Instincts Appetites
- 159 Will

- Physical development and hygiene
- .221 Hygiene of childhood
- .222 Sex education
- .223 Diseases of childhood
- 50 23 Moral and religious development
- 50 24 Activities
- .241 Imitation
- .242 Play
- .243 Social
- .244 _____
- .245 Linguistic development
- .246 Constructive
- .247 Drawing and music
- .248 Business training
- 50 25 _____
- 50 26 Child welfare Euthenics
- .261 Agencies Boy scout Junior republic
- .262 Child labor
- .263 Backwardness
- .264 Defectives Children of the poor

172 State ethics

- .1 Individuals and the state Duties of citizens Patriotism
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- .4 International ethics Peace and war
See also 341 International law

- 157 Sensibility Emotions Affections
158 Instincts Appetites
159 Will

- 50.265 Delinquents
- .266 Eugenics
- 50.27 Abnormal children
- .271 Blind
- .272 Mentally deficient
- .273 Precocious
- 0.28 Training of children
- 0.29 Child in human progress
- .291 Primitive child life
- .292 Child life in literature: autobiographies

For rules of Christian conduct, see 241

- .2 Intuition Moral sentiment
See also 143 Intuitionism; 156 Intuitiv faculty
- .3 Perfection
- .4 Happiness Hedonism
- .5 Utilitarianism
- .6 Conscience Casuistry
- .7 Evolutionary or educational
- .8 Altruism
- .9 Egoism

172 State ethics

- .1 Individuals and the state Duties of citizens Patriotism
See also 320 Political science
- .2 Duties of public officers Official corruption
- .3 Relations to church
Duty of state as to support and protection of church
See also 261.7 The church; 322 Church and state; 272 Persecutions
- .4 International ethics Peace and war
See also 341 International law

- 157 Sensibility Emotions Affections
158 Instincts Appetites
159 Will

I60 Logic Dialectics

See 153.6 Reasoning power. For logic of chance, see 519 Probabilities

- I61 Inductiv
- I62 Deductiv
- I63 Assent Faith
 - See also 234.2 Doctrinal theology
- I64 Symbolic Algebraic
 - Logical machines
 - Logical topics
- I65 Sources of error Fallacies
- I66 Syllogism Enthymeme
- I67 Hypotheses
- I68 Argument and persuasion
- I69 Analogy Correspondence
 - See also 219 Natural theology

I70 Ethics: theoretic and applied

Many topics in applied ethics occur also in law, specially in 343 Criminal law

See also 377.2 Ethical education.

- .1 .2 Compendis .3 Dictionaries .4 Essays .5 Periodicals
- .6 Societies; Society for ethical culture .7 Study and teaching .8 Polygrafia
- .9 History

I71 Theories Philosophy of ethics

Theories of the basis of morality

- .1 Authority Will of God Christian
 - For rules of Christian conduct, see 241
- .2 Intuition Moral sentiment
 - See also 143 Intuitionism; 156 Intuitiv faculty
- .3 Perfection
- .4 Happiness Hedonism
- .5 Utilitarianism
- .6 Conscience Casuistry
- .7 Evolutionary or educational
- .8 Altruism
- .9 Egoism.

I72 State ethics

- .1 Individuals and the state Duties of citizens Patriotism
 - See also 320 Political science
- .2 Duties of public offisers Official corruption
- .3 Relations to church
 - Duty of state as to support and protection of church
 - See also 261.7 The church; 322 Church and state; 272 Persecutions
- .4 International ethics Peace and war
 - See also 341 International law

173 Family ethics

- .1 Marriage and divorce See also 347.6 Family law
- .2 Polygamy and monogamy See also 298 Mormonism
- .3 Duties of husbands and wives
- .4 Infanticide
- .5 Duties of parents
- .6 Duties of children
- .7 Home life
- .8 Masters and servants See also 647 Servants; 331 Labor
- .9

174 Professional and business ethics

- .1 Clergy
- .2 Physicians
- .3 Lawyers
- .4 Merchants Business men Business virtues and vices
- .5 Speculation Mammonism Avaris
- .6 Gambling Lotteries
- See also 175 below
- .7 Honor, honesty Dishonesty
Compact, promis; chicanery, trickery
- .8 Employers and employd
- .9

175 Ethics of amusements For amusements, see 790

- .1 Public shows and diversions Rinks, circuses, etc.
- .2 Theater Opera Private theatricals
- .3 Dancing Balls Round dances
- .4 Games of skill: billiards, chess, etc.
- .5 Games of chance: cards, dice, etc.
- .6 Prize fighting Animal fighting: bull, dog, cock, etc.
- .7 Racing: horse, boat, pedestrian, wheel, etc.
- .8 Novel reading
- .9 Betting Poolselling See 174.6

176 Sexual ethics

- .1 Chastity
- .2 Celibacy See also 254 Celibacy of clergy
- .3 Continenace
- .4 Solitary vice
- .5 Social evil See also 258 Parish care of fallen
- .6 Adultery
- .7 Immoral art
- .8 Immoral literature
- .9

177 Social ethics

- .1 **Curtesy**
See also 395 Etiquet
- .2 **Conversation Gossip**
See also 374.1 Self culture
- .3 **Truth Slander Flattery**
- .4 **Dress Display Sumptuary legislation**
- .5 **Caste Class feeling Welth and rank**
See also 294 Brahmanism, and 323.31 Nobility, welthy class
- .6 **Friendship Courtship Coquetry**
- .7 **Philanthropy Humanity**
- .8 **Solitude vs social obligations**
- .9

178 Temperance Stimulants and narcotics

May be divided by form .01-.09; see Index table 2, following Relativ index
See also 132.7 Dipsomania; 331.84 Laboring classes; 613.3 Beverages; 613.8 Nervous system

- .1 **Use of intoxicating drinks Beer drinking Medicinal use**
See also 616.861 Alcoholism; and Alcohol, Alcoholic, in Relativ index
- .2 **Total abstinence vs temperance**
- .3 **Social drinking Wine at table Treating**
- .4 **Traffic in intoxicating drinks License High license**
See also 336.27 Taxation
- .5 **Prohibition**
Including legal discussion of prohibition. See also 329.81 Prohibition party
- .6 **Inebriates**
Discussion, reformation. For reformatories and inebriate asylums see 362.8
- .7 **Tobacco**
- .8 **Opium Hashish Chloral Ether and other drugs**
- .9 **Gluttony and other intemperance**

179 Other ethical topics

- .1 **Morals of the press Newspapers**
See also journalism, 070.11
- .2 **Cruelty**
Societies for preventing cruelty to children and also general humane societies covering work for both children and animals. See also 173.4 Infanticide; 331.3 Labor of children
- .3 **Cruelty to animals**
- .4 **Vivisection**
See also 614.22 Vivisection laws
- .5 **Oaths**
- .6 **Heroism Bravery Cowardis**
- .7 **Life Dueling Suicide**
See also 394.8 Dueling as a custom
- .8 **Pride Covetousness Envy Anger Sloth Jealousy Hate and other vices**
- .9 **Humility Liberality Gentleness Patience Diligence Charity Modesty, and other virtues**

180 Ancient philosophers

See also 921.9, Biography of ancient philosophy

181 Oriental philosophers

- .1 Chinese: Confucius, Mencius
- .2 Egyptian
- .3 Jewish: kabala; Philo, Maimonides
- .4 Indian: gymnosophists
- .5 Persian Sufism
- .6 Chaldaean
- .7 Sabeism
- .8 Phenician
- .9 Syrian

182 Early Greek philosophers

- .1 Ionic: Thales, Anaximander, Anaximenes
Materialistic. Things are as they seem
- .2 Italic or Pythagorean Half idealistic
- .3 Eleatic: Xenophanes, Parmenides, Zeno, Melissus
Idealistic. Existence denied. Thought is the only reality
- .4 Heraclitus
- .5 Empedocles
- .6 Atomistic
Democritus
- .8 Anaxagoras
- .9 Other early Greek

183 Sophistic and Socratic philosophers

- .1 Sophistic: Protagoras, Gorgias, Prodicus, Hippias
- .2 Socrates
- .3 Socratic
- .4 Cynic: Antisthenes, Diogenes, Crates, etc.
- .5 Cyrenaic: Aristippus, Hegesias, etc.
- .6 Megaric: Euclid, Eubulides, Diodorus, etc.
- .7 Elian and Eretrian: Phedo, Menedemus, etc.

184 Platonic Older Academy

- .1 Plato
Class his works preferably in 833.4, but discussion of his philosophy here
- .2 Speusippus
- .3 Xenocrates

185 Aristotelian Peripatetic Lyceum

- .1 Aristotle
Class his works preferably in 833.5, but discussion of his philosophy here
- .2 Theophrastus
- .3 Eudemus
- .4 Strato

PHILOSOFY

- 186 Pyrrhonist New Platonist
 .1 Pyrrhonism Skepticism Pyrrho, Timon
 .2 New Academy: Arcesilaus, Carneades, Plutarch
 See 888.8 Plutarch's works
 .3 Eclecticism: Cicero See 875.4
 .4 Alexandrian, Neo-Platonic: Philo, Plotinus, Proclus,
 Porphyry, Iamblichus See 239.4 Apologetics; 273.1 Heresies

- 187 Epicurean: Epicurus Lucretius See also 871.1

188 Stoic

- .1 Zeno
 .2 Cleanthes
 .3 Chrysippus
 .4 Panaetius
 .5 Posidonius
 .6 Seneca See 878.5; 872.6
 .7 Epictetus
 .8 Marcus Aurelius

189 Early Christian and medieval filosofers

- .1 Gnosticism See 273.1 Basilides, Marcion. See 273.2 Manicheism
 .2 Patristic: Tertullian, Augustine, Clement, Origen
 .3 Arabian: Avicenna, Averroes
 .4 Scholastic: Scotus, Aquinas, Anselm, Abelard
 .5 Mystic: Reuchlin, Cornelius Agrippa, Paracelsus, Servetus,
 Böhme

190 Modern filosofers

See also 921.1 to 921.8 Biografy of filosofy, or lives may be put here with works, with references only under 920 Biografy. Filosofic works are put here, not under the School or System to which the author may be thought to belong. See note under 140

191 American filosofers

These numbers may be left blank for future use or used for the well know names among American filosofic writers given below

- .1 Jonathan Edwards 1703-58
 .2 Orestes A Brownson 1803-76
 .3 Ralph Waldo Emerson 1803-82 See 814.36
 .4 Laurens P Hickock 1798-1888
 .5 James McCosh 1811-94
 .6 Noah Porter 1811-92
 .7 Francis Bowen 1811-90
 .8 William Torrey Harris 1835-1909
 .9 Other American filosofic writers

- 192 British philosophers
- | | | | |
|----|-----------------------------------|-----------|---------------------------|
| .1 | Bacon | 1561-1626 | See 144 Empiricism |
| .2 | Locke | 1632-1704 | See 145 Sensationalism |
| .3 | Berkeley | 1685-1753 | See 141 Idealism |
| .4 | Hume | 1711-76 | See 824.64 English essays |
| .5 | Reid | 1710-96 | See 143 Intuitionism |
| .6 | Dugald Stewart | 1753-1828 | |
| .7 | John Stuart Mill | 1806-73 | |
| .8 | Spencer | 1820-1903 | |
| .9 | Other British philosophic writers | | |
- 193 German philosophers
- | | | | |
|----|----------------------------------|-----------|-----------------------------|
| .1 | Leibnitz | 1646-1716 | |
| .2 | Kant | 1724-1804 | See 142 Critical philosophy |
| .3 | Fichte | 1762-1814 | See 141 Idealism |
| .4 | Schelling | 1775-1854 | |
| .5 | Hegel | 1770-1831 | |
| .6 | Schleiermacher | 1768-1834 | |
| .7 | Schopenhauer | 1788-1860 | See 149.6 Pessimism |
| .8 | Lotze | 1817-82 | |
| .9 | Other German philosophic writers | | |
- 194 French philosophers
- | | | | |
|----|----------------------------------|-----------|---------------------|
| .1 | Descartes | 1596-1650 | See 144 Empiricism |
| .2 | Malebranche | 1638-1715 | |
| .3 | Condillac | 1715-80 | |
| .4 | Rousseau | 1712-78 | |
| .5 | Diderot | 1713-84 | |
| .6 | Lamennais | 1782-1854 | |
| .7 | Cousin | 1792-1867 | See 148 Eclecticism |
| .8 | Comte | 1798-1857 | See 146 Positivism |
| .9 | Other French philosophic writers | | |
- 195 Italian philosophers
- 196 Spanish philosophers
- 197 Slavic philosophers
- 198 Scandinavian philosophers
- 199 Other modern philosophers

The heads of 180-199 are for discussions of the systems of these men and for their philosophic works not clearly belonging elsewhere, not for *all* their works. Mill's *Logic* is 160 not 192.7, but his *complete works* bound together are 192.7. Plato and Aristotle have individual numbers, 888.4 and .5, where their works are more useful than in 184-5 because of their classic prominence.

Religion

200 Religion General works

- 201 Philosophy, theories, methods
- 202 Compends, outlines, systems
- 203 Dictionaries, cyclopedias
- 204 Essays, lectures, disputations, addresses
See also 252 Sermons
- 205 Periodicals, magazines, reviews
- 206 Societies: transactions, reports, etc.

General conferences. Societies whose work is largely done by paid officers, most members merely contributing money; e. g. Pan-evangelical alliance, Bible and tract societies. Put history, reports, etc. here, but their publications of course go with subject

- 207 Education: theologic seminaries, training schools
Divided like 940-99
- 208 Polygraphy: collected works, extracts, etc.
Many collections go under a more specific hed; e. g. 240
- 209 History of religion
General, including ecclesiastic antiquities, statistics, etc. See also 270 for Christian religion, and 274-279 for Christian antiquities of special countries

210 Natural theology

Concerns evidence in nature exclusiv of revelation, also Christian or skeptic discussion of specific topics (211-214, 216-218). For general defense of Christian theology, see 239 Apologetics, subdivided according to kind of criticism

211 Deism and atheism

Skepticism. Infidelity. Rationalism, etc.
Atheism denies existence of God. Deism accepts existence, but denies revelation and rejects Christianity. Theism believes in a god supernaturally revealed, e. g. Judaism, Mohammedanism, Buddhism, etc. Arguments from nature in support of any of these views go here
See also 231 Christian theism; 239 Apologetics; 273.8 Agnostic heresy; 149.7 Agnosticism

212 Pantheism Theosophy

See 147 Pantheism; 129.5 Origin of soul

213 Creation Evolution

See 113 Cosmology See 575 Science

From religious viewpoint; attempts to harmonize *Genesis* and geology. See also metaphysics, 113 Cosmology; and natural science, 575 Evolution

214 Providence Theodicy

See 231.5 Doctrins

See 231.8 for Christian view

- 215 Religion and science See 239.8 Apologetics
Antagonism or reconciliation between science and Bible religion. Arguments of scientists against scientists. Bridgewater treatises. For creation, see 213
- 216 Evil Depravity See 149.6 Pessimism; 233.2 Sin
- 217 Prayer Prayer gage See 264.1 Prayer; 248 Personal religion
Tests of efficacy of prayer
- 218 Future life Immortality Eternity
See 237 Future state; 128 The soul.
- 219 Analogies Correspondences See also 169 Logic
- 220 **Bible General works**
For similar works limited to Old or New Testament, or individual books, see specific hed below
- .1 Canon Inspiration Authorship Profecy
- .2 Concordances Analyses
- .3 Dictionaries Cyclopedias
- .4 Original texts and early versions Codices
Heds for old and new testaments are given, as they are also used for 221 and 225
- .42 Chaldee
- .43 Syriac
- .44 Hebrew
- .45 Samaritan
- .46 Other Semitic: Ethiopic, Arabic, etc.
- .47 Latin, Itala, Vulgate
- .48 Greek, Septuagint Aquila, Symmachus, Theodotion
Hexapla
- .49 Other early versions: Armenian, Coptic, Gothic, etc.
220.4 and 220.5 are pure texts. A Hebrew bible with commentary goes in 220.7 with reference from 220.44
- .5 Versions of Bible Polyglots Divide by languages, like 400
These are translations from the original Hebrew and Greek. Translations from other early texts go with them in 220.4; e. g. an English translation of the Syriac goes in 220.43
- .6 Hermeneutics Exegesis Symbolism Typology
- .7 Commentaries on whole Bible, and annotated editions
For notes, etc. on portions of the Bible, see the most specific hed in 221-229
- .8 Special topics
Divided like general Classification; e. g. natural science of the Bible in 220.85
- .9 Biblical geograpy and history
- .91 Biblical geograpy, description, etc.
See 915.69, 913.33 Palestine
- .92 Scriptural biograpy
See also 922.1; 232.9 Lives of Christ
- .93 Antiquities, archeology
See also 296 Jewish religion; 933 History of Jews
- .94 Chronology
- .95 History
See 933 Jews

RELIGION

221 Old testament: texts, introductions, etc.

Divided like 220; e. g. 221.7. Commentaries on Old Testament

222 Historical books

- .1 Pentateuch
- .11 Genesis
- .12 Exodus
- .13 Leviticus
- .14 Numbers
- .15 Deuteronomy
- .16 Decalog
- .2 Joshua
- .3 Judges and Ruth
- .4 Samuel
- .5 Kings
- .6 Chronicles
- .7 Ezra
- .8 Nehemiah
- .9 Esther

223 Poetic books

- .1 Job
- .2 Psalms
- .3 Authorship and chronology
- .4 Special groups
Messianic; Greater Hallel; Lesser Hallel; Vesper psalms; Penitential, 6, 32
38, 51, 102, 130, 143; Hebraic five books, Psalms 1-41; 42-72; 73-89; 90-106;
107-150
- .5 Liturgic use by Christians Metrical versions
See 264.038 Anglican psalter; 245 Hymnology
- .6 Commentaries on psalms
- .7 Proverbs
- .8 Ecclesiastes
- .9 Song of Solomon, or Canticles

224 Profetic books

- .1 Isaiah
- .2 Jeremiah
- .3 Lamentations
- .4 Ezekiel
- .5 Daniel
- .6 Hosea
- .7 Joel
- .8 Amos

- 224.9 **Other minor prophets**
- .91 Obadiah
 - .92 Jonah
 - .93 Micah
 - .94 Nahum
 - .95 Habakkuk
 - .96 Zephaniah
 - .97 Haggai
 - .98 Zechariah
 - .99 Malachi
- 225 **New Testament: texts, introductions, etc.**
 Divided like 220
- 226 **Gospels and Acts**
- .1 **Harmonies**
 - .2 **Matthew**
 - .3 **Mark**
 - .4 **Luke**
 - .5 **John**
 - .6 **Acts of the apostles**
 - .7 **Miracles**
 - .8 **Parables**
 - .9 **Lord's prayer**
- 227 **Epistles**
- .1 **Romans**
 - .2 **Corinthians 1**
 - .3 **Corinthians 2**
 - .4 **Galatians**
 - .5 **Ephesians**
 - .6 **Philippians**
 - .7 **Colossians**
 - .8 **Other Pauline epistles**
 - .81 **Thessalonians 1**
 - .82 **Thessalonians 2**
 - .83 **Timothy 1**
 - .84 **Timothy 2**
 - .85 **Titus**
 - .86 **Philemon**
 - .87 **Hebrews**

227.9 Catholic epistles

- .91 James
- .92 Peter 1
- .93 Peter 2
- .94 John 1
- .95 John 2
- .96 John 3
- .97 Jude

228 Apocalypse**229 Apocrypha**

- .1 Esdras 1, 2
- .2 Tobit, Judith, Esther
- .3 Wisdom
- .4 Ecclesiasticus
- .5 Baruch, Epistle of Jeremy, Song of the three children
- .6 Story of Susanna, History of Bel and the dragon, Prayer of Manasses
- .7 Maccabees 1, 2, 3, 4
- .8 Pseudo gospels
- .9 Apostolic epistles and canons Clementines See 281.1

230 Doctrinal Dogmatics Theology

General doctrinal works may be subdivided by churches like 280-280. See also 252.3
Class here polemics either offensiv or defensiv, when distinctly doctrinal; but class in 280 history of a sect, even if largely controversial and of a limited period. Class controversy about a special doctrin with its subject; e.g. controversy on the atonement 232 3

231 God Unity Trinity

- .1 God the Father, Creator
- .2 God the Son, Redeemer
Second person of the Trinity, irrespectiv of his appearance on earth as the historic Christ
- .3 God the Holy Ghost, Giver of Life, Sanctifier
- .4 Divine attributes: omniscience, omnipresence, omnipotence
- .5 Divine providence See also Natural theology 214
- .6 Divine love and wisdom
- .7 Divine law and miracles
- .8 Theodicy
Vindication of God's justis in permitting evil. See also Natural theology, 214
- .9

- 232 Christology
- .1 Incarnation Messiah
 - .2 Logos, the Word of God
 - .3 Atonement
 - .4 Sacrifice
 - .5 Resurrection
 - .6 Second coming See also 286.7 Second adventists
 - .7 Judgment
 - .8 Divine humanity
Divinity of the man Jesus, pro and con
 - .9 Lives of Christ
- 233 Man
- .1 The fall
 - .2 Sin
 - .3 Moral and spiritual heredity
See also Biology, 575.1; Psychology, 136.3; Metaphysics, 129.2
 - .4 Accountability
 - .5 Natural and spiritual body
 - .6 Personality See also Metaphysics, 126
 - .7 Freedom See also 234.9; 123; 159
 - .8
 - .9
- 234 Salvation Soteriology
- .1 Grace
 - .2 Faith
 - .3 Redemption
 - .4 Regeneration
 - .5 Repentance
 - .6 Obedience
 - .7 Justification
 - .8 Sanctification
 - .9 Predestination and freewill See also 233.7; 123; 159
- 235 Angels Devils Satan
- 236 Eschatology Last things
- .1 Deth
 - .2
 - .3 Millennium
 - .4 Intermediate state Sheol Hades
 - .5 Purgatory
 - .6 Paradise Limbus patrum
 - .7 Limbo Limbus infantum
 - .8 Resurrection
 - .9 Judgment See also Christology, 232.7

237 Future state See also Natural theology, 218

- .1 Eternity
- .2 Immortality
- .3 Conditional immortality
- .4 Heven
- .5 Hell Gehenna
- .6 Retribution Future punishment
- .7 Eternal punishment See also 289.1 Universalists

238 Creeds Confessions Covenants Catechisms

Divided more closely if wisht like 280-289; e. g. 238.19 Greek church

- .1 Apostles, Nicene, and Athanasian creeds
- .2 Creed of Pius 4 (Trent) and later Roman
- .3 Anglican 39 articles, A. D. 1551 See also 264.037 Liturgy
- .4 Continental protestant Lutheran Calvinist Dort
- .5 Westminster Saybrook Cong'l Cambridge Savoy
- .6-.9 Of other sects Divided like 286-289

239 Apologetics Evidences of Christianity

If preferd, courses of apologetic lectures may be kept together; e. g. 239.01 Bampton; .02 Boyle; .03 Hulsean; .04 Bohlen; .05 Paddock; .08 Miscellaneous. More usefully each book is clast under the most specific hed that will contain it

See also natural theology 211-218 and doctrins 231-237 for discussion of separate topics

- .1 Apostolic age
- .2 Against the Jews
- .3 Against the heathen
- .4 Against the Neo-Platonists See 273.1 Gnostic heresy
- .5 Against the English and Scotch deists See 211 Deism
- .6 Against the French encyclopedists
- .7 Against the rationalists
See 211 Natural theology; 273.8 Agnostic heresy; 149.7 Agnosticism
- .8 Against the scientists For nonchristian view, see 215
- .9 Other special denials

240 Devotional Practical**241 Didactic**

Specifying the Christian's duty to do and to avoid For Catechisms see 238

242 Meditativ, contemplativ

Consolatory. See also 248 Personal religion

.1 Thomas à Kempis**243 Hortatory, evangelistic**

Urging sinners to Christian repentance

244 Miscellany: religious novels, Sunday school books, allegories, satires, etc.

But class Bunyan in 823.42 because of his literary prominence

245 Hymnology Religious poetry

Hymns without music. For hymns with music see 783.9

Divided by languages, like 800, and then by churches, like 280, if denomination is clearly marked

See also 223.5 Psalms; 264.038 Psalter

246 Ecclesiology Symbolism Religious art

246-7 cover religious bearings. For art side see 700

.1 Byzantine and Gothic ecclesiology

See 723 Medieval architecture; 726 Religious architecture

.2 Primitiv church and heathen art**.3 Images in churches Iconoclasts****.4 Protestantism and religious art****.5 Emblematic and cryptografic art: catacomb symbols****.6 Liturgic symbolism: altar, colors, lights**

See also 264 Public worship

.7 Evangelistic use of music and art, pictorial and plastic: Della Robbias**.8 Eucharistic music: Ambrose, Gregory the Great Later development**

See also 783 Sacred music; 264.2 Public worship

247 Sacred furniture Vestments Vessels Ornaments, etc.**.1 Font Baptistry Lectern Pulpit****.2 Tabernacle Rood screen Reredos****.3 Sculpture and mortuary design**

See 718 Monuments; 726.8 Mortuary bildings; 730 Sculpture

.4 Illumination Mosaics Enamels Stained glass

See also 745 Ornamental design; 748 Stained glass

.5 Fresco and religious painting

See also 750 Painting

.6 Pallium Miter Crozier Ring**.7 Vestments and altar cloths****.8 Eucharistic vessels**

See also 265.3 Sacraments

.9 Ornaments, etc: crucifix, banners, thurible, incense

RELIGION

- 248 Personal religion Asceticism
See also 273.2 Ascetic heresy
- 249 Family devotions See 264 Public worship
- 250 **Homiletic Pastoral Parochial**
- 251 Homiletics Preaching See 264.6 Public worship
Divided like 252, for matter about special kinds of sermons
- 252 Sermons
When too varied for any of the subheds .1- .9, may be divided with .0 by churches and sects, like 280; e. g. protestant episcopal sermons 252.03, but a collection of bishop's addresses 252.1. Sermons on specific topics are more useful, like other pamphlets, clast with the topics, e. g. a sermon on family devotions is 249, not 252.4; on strikes, 331.89. Tho the 9 heds below are for collections and cross references, they may be used for separate sermons if preferd
- .1 Episcopal charges Pastorals
- .2 Controversial Polemic
- .3 Doctrinal Dogmatic See also 230 Dogmatics
- .4 Practical Devotional
- .5 Academic Educational See also 378.7 Baccalaureates
- .6 Political Public occasions and duties
Thanksgiving and Fast day
- .7 Consecration Ordination Installation
See also 265.4 Ordination; 265.9 Consecration; 262.16 Orders
- .8 Expository
- .9 Memorial Obituary Biographic Historical
Memorial of a special church goes with that church in 280. See also 920 Biograpy
- 253 Pastoral visitations, evangelistic
- 254 Cleric support Celibacy
See also 176.2 Sexual ethics; 248 Asceticism; 613.89 Hygiene
- 255 Brotherhoods Sisterhoods
In the parish. For Monastic orders, see 271
- 256 Societies for parish work: guilds, sodalities
Local societies. Discussion of desirability of such work. For general societies see 206 and 267
- 257 Parochial schools Libraries, etc.
See also 377.5 Education; 027.8 Parish libraries
- 258 Parish care of sick, fallen, etc.
See 265.8 Ministry of sick; 176.5 Social evil
- 259 Other ministrations and work

260 Church Institutions and work

261 The church

Its influence on morals, civilization, etc. Relation to social questions, laboring classes, etc.

.1

.2

.3

Church vs barbarism

.4

Church and morals

.5

Church and intellectual development See also 377.8 Education

.6

Church and civilization

.7

Church and civil government

See 172.3 State ethics; 322 Church and state

.8

National churches vs organic unity

.9

262 Ecclesiastic polity

.1

Ministry

.11

Apostolic succession

.12

Episcopate

.13

Papacy Primacy Papal supremacy; infallibility, 18 July 1870

.14

Priest Presbyter Minister Lay ministry

.15

Deacon Deaconess Evangelist

.16

Orders Ordination See 265.4 Sacraments; 252.7 Sermons

.17

Episcopal

.18

Presbyterian

.19

Congregational

.2

Parish Congregation See 250 for Parochial work

.3

See Diocese Cathedral system

.4

Council Synod Presbytery Congregation Convention

Polity only, here. Proceedings go with churches, 281-9

.5

General or ecumenic council See also 270.2

.6

Canons Decrees

.7

Traditions

.8

Authority Church and ministerial Private judgment

.9

Disciplin Courts Trials For Canon law see 348

263 Sabbath Lord's day Sunday

.1

Hebraic sabbath

.2

Modern sabbath Seventh day

.3

Lord's day Christian Sunday

.4

Sunday observance

.5

Work

.6

Amusement

.7

Opening libraries and museums

See also 024.4 Library rules

.8

Sunday laws

.9

264 Public worship Divine servis Ritual

Prayer books. See also 246, Ecclesiology; 247 Sacred furniture. General works are divided with .0 by churches like 280; e. g. Roman catholic prayer book 264.02 Under various churches the servises may be further divided, as e. g.

- .03 Anglican and American P. E. ritual
- .031 Calendar Festivals and fasts See also 529.6 Chronology
- .032 Lectionary and rubrics
- .033 Morning prayer Litany
- .034 Evening prayer Vespers Compline
- .035 Sacraments, ordinances, and servises See also 265 Sacraments
- .036 Collects, epistles and gospels
- .037 Ordinal Articles Creeds See also 238.3 Creeds, doctrins
- .038 Psalter and other See 223.5 Psalms; 245 Hymnology
- .039 History of successiv prayerbooks
- .1 Prayer Extempore Liturgic
See also 248-249 Private and family prayer
- .2 Music Singing Instrumental Praise meeting
See also 783 Sacred music; 246.7, 246.8 Ecclesiology
- .3 Scripture readings
- .4 Antiphonal or responsiv readings
- .5 Confessions of faith Creeds See also 238 Creeds
- .6 Sermons Exhortations Instructions
See also 251 and 252 Preaching and sermons
- .7 Prayer and conference meetings
- .8 Class and covenant meetings Love feasts
- .9 Sacramentals See also 265 Sacraments

265 Sacraments Ordinances

- .1 Baptism
- .2 Confirmation Church fellowship
- .3 Eucharist Holy communion Sacrifice
- .4 Holy orders Ordination See also 262.16 Ministry; 252.7 Sermons
- .5 Marriage See also 173 Ethics of the family
- .6 Penance Confession Absolution
- .7 Extreme unction Viaticum
- .8 Ministry of sick and ded: faith cure, healing, burial
- .9 Consecration Dedication See 262.16 Ordination; 252.7 Sermons

266 Missions: home and foren

Subdivided by churches, like 280. See also 269 Parish missions; 377.6 Missionary schools

Missions in special countries or places covering the work of several sects go under the geograficly divided Religious history 274-279. The mission of a single sect in a special country or place goes with the history of the sect in 282-289

267 Associations

General societies demanding of members active personal work. For local societies, see 256. For Bible, tract, and similar general societies see 206

- .1 **Religious societies of both men and women**
- .11 U. S. Christian commission
- .15 Salvation army
- 267.2 **Religious societies of men**
 - For Y. M. C. A. see 267.3; missionary societies, 266; ministerial education societies 207; Bible societies, 206
 - .21 17th century or earlier } May be divided by countries like 940-99
 - .22 18th century }
 - .23 19th century; interdenominational and undenominational
 - .231 In educational institutions
 - Divided like 940-99. If preferred, cancel .231 and put all together in .234-9.
 - For work of Y. M. C. A. see 267.361
 - .232 Nasmith societies
 - .233 Young men's Christian unions; i. e. not "evangelic," etc.
 - .234-.239 Others Divided like 940-99
 - .24 19th century; denominational
 - .241 In educational institutions
 - Divided like 282-289. If preferred, cancel .241 and put all together in .242-9. For work of Y. M. C. A. see 267.361
 - .242-.249 Others Divided like 282-289
- .3 **Young Men's Christian associations**
 - Active membership confined to members of "evangelic" churches
 - To shorten the number, X may be used for 267.3 thruout; i. e. X 19 would mean "Work in small towns"
 - .31 **Objects, field and extension**
 - .311 Need and objects
 - .312 Limits: for and by young men and distinctively religious
 - .313 Relation to the church
 - .314 International work
 - .315 National work
 - .316 State work
 - .317 District work
 - .318 Work in towns able to support a general secretary
 - .319 Work in small towns
 - .32 **Buildings** See also library buildings 022
 - .321 Location Provision for growth
 - .322 Materials and protection against fire
 - .323 Plans Number, size and arrangement of rooms
 - .324 Reception, social rooms and parlors
 - .325 Library Reading, lecture, and class rooms See 022
 - .326 Administration and special rooms Boys' rooms
 - .327 Physical culture rooms
 - .328 Lighting, heating, and ventilation
 - .329 Fixtures, furniture, and fittings

Methods only.
For history, reports and periodicals see 267.39; for secretaries see 267.341

RELIGION

- 267.33 **Organization**
 - .331 Incorporation Constitution and bylaws
 - .332 Branches and suborganizations Including women's work for young men
 - .333 Managers Officers serving without pay
 - 1 Trustees (in charge of real estate)
 - 2 Directors
 - 3 President
 - 4 Treasurer
 - 5 Recording secretary
 - 6 Executiv or corresponding secretary
 - .334 Standing committees
 - 1 Importance; enlistment and composition
 - 2 Principles and methods of organization
 - 3 Names and duties See also Department work, 267.35
 - .335 Membership
 - 1 Membership committee
 - 2 Classes of membership
 - 3 Securing and retaining members
 - 4 Development of activ members
 - 5 Associate membership and its relations
 - For members' meeting see Social work, 267.3544
 - .34 **Salaried officers: duties, qualifications, training**
 - .341 General secretary and assistants
 - Including international and state secretaries. See also 267.314- 316
 - 1 Offis and work
 - 2 Qualifications
 - 3 Relationship
 - 31 To churches and pastors
 - 32 To officers, directors, and committees
 - 33 To other employees
 - 34 To the members
 - 35 To the religious work
 - 36 To the business community
 - 37 To fellow secretaries
 - 4 Personal hints
 - 41 Considering a call and beginning work
 - 42 Spiritual and intellectual growth and helth
 - 43 Offis work, system, and economy
 - 44 Personal appearance and conversation
 - 45 Ladies' company
 - 46 " Secretarialism "
 - .342 Librarian and assistants
 - May be divided like 267.341. See also Library administration, 025 and 267.3532
 - .343 Physical director and assistants
 - May be divided like 267.341. See also 267.355 and 613.7
 - .344 Other salaried officers
 - .345 Training; need and methods, demand and supply
 - .346 Training schools
 - .347 Training by apprentisship
 - .348 Institutes } Methods only; for reports see 267.39
 - .349 Conferences }

- 267.35 **Local work by departments**
- .351 **Business department**
- 1 Finance committee
- 2 Annual budget
- 3 Endowments and other sources of income
- 4 Solicitation, collection and disbursement
- 5 Financial bookkeeping
- 6 Debt, taxes, etc.
- 7 Records and statistics
- 8 Advertizing, including anniversaries and parlor conferences
- 9 Printed matter Including bulletin, prospectus, etc.
- .352 **Religious department**
- 1 Committees
- 2 Individual Bible study Methods and helps
- 3 Bible classes
- 4 Training classes Personal work
- 5 Bible readings Song services
- 6 Evangelistic meetings
- 7 Social religious meetings
- 8 Other meetings in the rooms
- 9 Work outside the rooms
 In public institutions, sermons to young men, distribution of religious
 papers, invitations, etc.
- .353 **Educational department**
- 1 Committees
- 2 Library See 267.342 and 025
- 3 Reading room
- 4 Classes
- 5 Lectures and talks
- 6 Literary societies
- .354 **Social department**
- 1 Committees
- 2 Reception committee
- 3 Social rooms and fittings See 257.32
- 4 Receptions Socials Entertainments
- 5 Music
- 6 Amusements Including games of skill See also 794
- .355 **Physical department**
- 1 Committees
- 2 Aim and benefit of department
 For Physical director see 267.343; Equipment, methods, etc. 613.7
- .356 **Information, relief, etc. department**
- 1 Boarding house bureaus
- 2 Employment bureau
- 3 Savings bureau
- 4 Visitation of sick
- 5 Destitute young men
- .357 **Boys department**
- 1 Committees
- 2 Religious work
- 3 Educational work
- 4 Social work
- 5 Physical work
- 6 Information, relief, etc.
- .358
- .359 **Janitor's department: bilding; care, cleaning, safety Police**

RELIGION

- 267.36 **Work among special classes**
 Y. M. C. A. only; other religious societies of men go in 257.2
- .361 **College and school**
 1 History and methods in general
 2 International reports Including Northfield meetings
 3 International periodicals
 For state and sectional reports and periodicals see 267.39
- .362 **Railroad employees**
 1 History and methods in general
 2 International reports
- .363 **Commercial travelers**
- .364 **Foren-speaking**
 Divided like 400; e. g. 3 German, 4 French, 5 Italian, etc.
- .365 **Negroes**
- .366 **American Indians**
- .367 **Soldiers** U. S. Christian commission, 267.11
- .368 **Sailors**
- .369 **Other** Policemen, firemen, fishermen, lumbermen, mutes. etc.
- .39 **History, reports, periodicals, etc.** For methods see 267.314-319
- .391 **International history**
- .392 **International reports, etc.** }
 1 Reports } Reports, etc. of international college and
 2 Other pamphlets } railroad work go in 267.361-.362
- .393 **International periodicals** International college periodicals, 267.3613
- .394-.399 **Special countries** Divided like 940-999
- .4 **Religious societies of women**
- .41
- .42
- .43 19th century; interdenominational and undenominational
- .431
- .432 **Women's Christian associations**
 Divided like 267.3. To shorten the number, W may be used for 267.432
 throughout; e. g. W 1 would mean ' Objects, field and extension '
- .433 **King's daughters**
- .44 19th century; denominational Divided like 282-289
- .5 **Young Women's Christian associations**
 Active membership confined to members of 'evangelic' churches
 Divided like 267.3-399
 To shorten the number Y may be used for 267.5; e. g. Y3, Organization, instead
 of 267.53
- .6 **Religious societies of young people** For Sunday schools see 268
- .61 **Interdenominational and undenominational**
- .613 **Young people's society of Christian endeavor**
 1 Reports, etc.
 2 Periodicals
- .62 **Denominational** Divided like 282-289
- .7 **Religious societies of boys** Not Y. M. C. A. Divided like 267.6
- .8 **Religious societies of girls** Not Y. W. C. A. Divided like 267.6
- 268 **Sunday schools**
- 269 **Revivals Retreats Parish missions**

270 Religious history

Ancient period: to conversion of Germans

See 281.1-281.4, for collected works of early theologic writers, etc. 270 is for religious history of these *periods*

For religious history of special countries, either general or for special periods, see country divisions, 274-279; e. g. English reformation, 274.2

- | | | | |
|-----|--|--------------------------------|--------------|
| .1 | Apostolic | Nativity to Constantine | |
| .2 | Period of ecumenic councils | Centralization | A. D. |
| | 325-787 | | |
| | The Greek church acknowledges these 7 councils as really Ecumenic. Anglicans generally recognize only the first 6. See also 262.5 Polity | | |
| .21 | First of Nice | A. D. 325 | |
| .22 | First of Constantinople | 381 | |
| .23 | First of Ephesus | 431 | |
| .24 | Chalcedon | 451 | |
| .25 | Second of Constantinople | 553 | |
| .26 | Third of Constantinople | 680-81 | |
| .27 | Second of Nice | 787 | |

Medieval period: Charlemagne to Luther

- | | | | |
|-------|--|-------------------------|------------------------|
| 270.3 | Charlemagne | Papacy vs empire | A. D. 787-1054 |
| | Church planted among the Germans. Feudalism. Great schism, east vs west, 1054 | | |
| .4 | Hildebrand | Roman supremacy | A. D. 1054-1200 |
| | Temporal power. Scholasticism. First 3 crusades | | |
| .5 | Later medieval | Renaissance | A. D. 1200-1517 |
| | Innocent 3. Papal schism. Avignon. Nominalism vs realism. Greek church under Moslems. Education. Arts. Inventions. Pre-reformation | | |

Modern period: Reformation to present

- | | | | |
|----|---|----------------------------|------------------------|
| .6 | Reformation | Counter reformation | A. D. 1517-1648 |
| | Council of Trent, A. D. 1545-63. Diet of Augsburg. Luther. Melancthon. Calvin. Knox. Religious wars. Jesuit missions in east. See also reformation in England, etc. 274.2 | | |
| .7 | Peace of Westphalia to French revolution | 1789 | A. D. 1648- |
| | Union of church and state. Deism. Materialism | | |
| .8 | Modern | Rationalistic | A. D. 1789- |
| | Holy alliance. Greek church in Russia. Atheism. Pantheism. Protestant missions | | |
- 271 **Monastic orders** **Monasteries**

Including monasticism and monastic foundations

See also 255 Brotherhoods; 726.7 Architecture of monasteries, etc.

- | | | |
|------|---------------------|--------------------------|
| .1 | Benedictines | founded A. D. 529 |
| .12 | Cistercians | " " 1098 |
| .125 | Trappists | " " 1150 |
| .2 | Dominicans | " " 1170 |
| .3 | Franciscans | " " 1182 |
| .36 | Capuchins | " " 1525 |
| .4 | Augustinians | " " 1256 |
| .5 | Jesuits | " " 1540 |

- 271.6 **Passionists, 1720** **Redemptorists, 1732**
- .7 **Lesser Roman orders**
- .71 Carthusians, founded A. D. 1086
- .73 Carmelites 12th century
- .75 Sulpicians, 1642
- .76 Oblates
- .77 Lazarists, 1624
- .78 Christian Brothers, 18th century De la Salle
- .79 Other lesser Roman orders
- .8 **Anglican brotherhoods**
- .9 **Sisterhoods**
- .91 Sisters of Charity Vincent de Paul founded A. D. 1629
- .92 Sisters of Mercy Augustinian " " 1831
- .93 Ladies of the Sacred Heart Jesuit " " 1800
- .94 Sœurs de bon Secours Nurses
- .95 Little Sisters of the Poor
- .96 Contemplativ Cloisterd nuns
- .97 Other Roman sisterhoods
- .971 Carmelites
- .972 Second of St Dominic
- .973 Franciscans
- .974 Ursulines A. D. 1537
- .975 Of the Visitation " 1610
- .976 Of St Joseph " 1650
- .977 Of the Presentation " 1777
- .98 Anglican sisterhoods
- .99 Other protestant orders Deaconesses (Kaiserwerth)
- 272 **Persecutions**
- See also special sects, 280; and history of special countries, 940-999
- .1 **Apostolic church by imperial Rome** 1st-4th century
- .2 **Heretics by Inquisition or Holy Offis** Since 1470
- .3 **Waldenses and Albigenses** 11th-12th century
- By Roman church. See also 283.4, Protestant sects
- .4 **Huguenots** French protestants
- By Roman church. St Bartholomew, 1572. Edict of Nantes, 1598; revocation, 1685
- See also 284.5 Protestant sects
- .5 **Molinists and Quietists**
- By Roman catholics. Close of 16th century to destruction of Port Royal, A. D. 1709. See also 273.7 Heresies
- .6 **Marian Anglican reformers by Mary** A. D. 1553-58
- .7 **Elizabethan** Later 16th century
- Persecution of Roman church by Anglicans
- .8 **Quakers** Baptists Witches Later 17th century
- Persecutions by puritans. See also 133.4 Witchcraft
- .9 **Other persecutions**

- 273 **Heresies**
 For the history of special doctrins see 230-239, Doctrinal theology
- .1 **Gnostic First 3 centuries**
 Reaction of pantheism and heathen philosophy on Christianity. See also 189.1 Gnostic philosophy; 186.4 Neo-Platonism; 239.4 Apologetics
- .2 **Manichæism Parsee dualism 3d century**
 Opposition of good and evil. Mystic. Ascetic. See also 149.3 Mysticism; 248 Asceticism; 289.8 Shakers, Mystics
- .3 **Sabellian**
 That the Trinity is not of persons, but of successive manifestations. About 250 A. D. Held by Schleiermacher, Bushnell, Swedenborg
- .4 **Arian Denying divinity of Christ 4th century**
- .5 **Pelagian 5th century**
 Denying original sin and supernatural grace
- .6 **Antinomian 16th century**
 Denying force of law, under Gospel dispensation
- .7 **Molinist and Jansenist Pietists A. D. 1580-1700**
 Port Royal. Augustine's doctrine of grace vs the Roman doctrine of good works
- .8 **Agnostic**
 Denying possibility of revelation. Holding that theology and the supernatural lie outside the domain of human knowledge. See also 149.7 Philosophy; 211 Atheism; 239 Apologetics
- .9 **Minor heresies**
- 274-279 **General religious history by countries**
 274-279 is divided geographically like 940-999
- 280 **Christian churches and sects**
 281-289.8 may be subdivided where needed like 940-999
- 281 **Primitiv and Oriental churches**
 See also 270.1-270.3, Early religious history
- .1 **Apostolic church, to time of great schism, A. D. 1054**
 Works of apostolic and Christian fathers here; use 270 for religious history of these periods. See also 229.9 Apocryphal books
- .2 **Primitiv apostolic, to end of first century**
- .3 **Ante-Nicene, A. D. 100-325** See also 270.1
- .4 **Post-Nicene, A. D. 325-1054** See also 270.2-3
- .5 **Oriental churches**
- .6 **Armenian**
- .7 **Coptic**
- .8 **Nestorian**
- .9 **Eastern or Greco-Russian or Holy orthodox church**
 The great schism, mutual excommunication, A. D. 1054, separates the Catholic church into Eastern and Western churches, which from this time have separate histories
- 282 **Western or Roman catholic church**
 Divided geographically like 940-999
- 283 **Anglican and American P. E. church**
 Divided geographically, when needed, like 940-999; e. g. the Anglican church in Australia is 283.94; in India, 283.54

284 Continental protestant sects Protestantism

- .1 **Lutheran Reformd** See also 285.7, Reformd church in America
German reformd church in United States
- .2 **Calvinist Zwinglian** See 285, and 286.1
- .3 **Hussites Anabaptists Leyden** See 286.1
- .4 **Albigenses Waldenses Vaudois** See 272.3
- .5 **Huguenots** See 272.4
- .6 **Moravian**
- .7 **Scandinavian Swedish**
- .8 **Old catholic**
Here are classt those denying papal infallibility, or for other cause cut off from Rome, tho catholic in other respects
- .9 **Other**

285 Presbyterian Reformd Congregational

- Next 2 subdivisions are sectarian, not geografic
- .1 **Presbyterian church in America**
Subdivided geograficly; e. g. 285.173 Presbyterian church in United States, 285.175 Southern presbyterian church
- .2 **Presbyterian church in Great Britain**
- .3 **Cumberland presbyterian**
- .4 **United presbyterian**
- .5 **Reformd presbyterian**
- .6 **Minor presbyterian sects**
- .7 **Reformd (Dutch) church in America** e. g. 285.77471, in N. Y. city

.8 Congregational

.9 Puritanism

286 Baptist Immersionist

- .1 **Calvinistic or Regular**
Including Arminian or general baptists, r. unit:d with Calvinistic in 1391
- .2 **Free wil**
- .3 **Seventh day**
- .4 **Old school (Primitiv, Antimission or Hardshel)**
- .5 **Other baptist sects**
May be classt if preferd with any of the larger sects which they most closely resemble or of which they ar offshoots
- .6 **Disciples (Campbellite or Christian)**
- .7 **Adventists**
- .9 **Other immersionists**

- 287 **Methodist**
 .1 Wesleyan methodist
 .2 Calvinistic methodist
 .3 Welsh Calvinistic methodist
 .4 Primitiv methodist
 .5 Primitiv Wesleyan
 .6 Methodist episcopal
 .7 Methodist protestant
 .8 African methodist
 .9 Minor methodist sects
- 288 **Unitarian** See also 273.4
- 289 **Other Christian sects**
 .1 Universalist
 .2
 .3
 .4 New church or Swedenborgian
 .5 Christian science
 .6 Quaker Friends Hicksites
 .7 Mennonite
 .8 Shaker Mystic For Mystic heresy see 273.2
 .9 Minor Christian sects
- 290 **Ethnic and other religions**
 Including comparativ religion and general histories of religion where an equal or minor place is given to Christianity
- 291 **Comparativ and general mythology**
 292 Greek and Roman mythology
 293 Teutonic and Northern mythology
- 294 **Brahmanism Buddhism**
 For other Indic religions, see 299.11. See also 891.2 Sanskrit literature; 177.5 Caste
- 295 **Parseeism Zend Avesta**
 For other Iranic religions, see 299.15. See also 891.52 Zend literature
- 296 **Judaism** For other Semitic religions, see 299.2
- 297 **Moha medanism**
- 298 **Mormonism** See also 173.2 Polygamy
- 299 **Minor nonchristian religions**
 Subdivided ethnically like 491-499; e. g. Egyptian religion, 299.31; Afghani religion, 299.158

Sociology

300 Sociology in general

301-309 all have Sociology in general as their subject, but it is treated in these various forms. A periodical on Education is 370.5, not 305, which is only for periodicals on Sociology in general. In Sociology, most works in these forms are limited to one division; e. g. to Political economy, Education, Law, etc. All these have the same subdivision of General works; i. e. essays on the various divisions are 310.4, 320.4, 330.4, and so on to essays on Manners and Customs in general, 390.4. A naught in any class number show the subject to be general, not specific

301 Philosophy, theories

See also 901 Philosophy of history; 320.1 Theory of state

302 Compendis, outlines

303 Dictionaries, cyclopedias, etc.

304 Essays, lectures, addresses

305 Periodicals, magazines, reviews

306 Societies: transactions, reports

307 Education: teaching, study, etc. See also 370

308 Polygraphy: collected works, extracts, etc.

Put here collected works of statesmen; e. g. works of Adams, Jefferson, etc.

309 History of social science

.1

Social surveys

Divided like 940-999 Better class by general libraries in 914-919

310 Statistics

311 Theory, methods Science of statistics

Principles of tabulation, graphic charts, etc. Methods of gathering data

312 Population (progress of) Vital statistics: births, deaths, mortality, longevity

See also 614.1 Registration and vital statistics

Statistics are divided geographically like 930-999; e. g. Population of Maine 312.741

313 Special topics

314-319 General statistics Divided geographically like 940-999

The statistics of any special matter are put with the subject, e. g. of Domestic animals in 636, of Shorthand in 653, of French novels in 843, of Theaters in 792, etc. Statistics too general to be included in any topic are divided by countries. Statistics of New York city would be 317.471, but the statistics of Medicine in New York would be put with 610, Medicine; i. e. the topic outranks the locality

320 Political science

- .1 Theory
- .11 Origin of the state
- .12 Nation and territory
- .121 Ethnographic
 - People of same race comprise the nation
- .124 Geografic
 - Unity of territory
- .126 Expansion Acquisition of territory
 - 1 By discovery
 - 3 " occupation and possession
 - 5 " cession Annexation
 - 7 " purchase or exchange
 - 9 " conquest or revolution
- .127 Alienation of territory
- .128 Frontiers Boundaries
 - 1 Natural boundaries
 - 2 Mountains
 - 4 Rivers
 - 6 Lakes
 - 8 Coast
 - 9 Artificial boundaries
- .15 Nature, entity, concept of the state
- .151 Juridic theory
- .152 Political theory
- .153 Social and evolutionary theories
- .154 The state as a moral organism
- .157 Soverenty
 - See also 341 International law
- .158 Allegiance Loyalty, etc. Patriotism
 - See also state ethics 172.1 Duties of citizens
- .159 National growth and decay
- .18 Symbolism, emblems: arms, flag, seal, etc.
 - Better clast in 929.8 and 929.9
- .2 Compendis, statecraft
- .3 Dictionaries
- .4 Essays
- .5 Periodicals
- .6 Societies
- .7 Education
- .8 Polygrafy
- .9 History of political science, divided like 930-999

321 Form of state

- .01 Simple state Soveren state
- .02 Mixt state
 - .021 Federal state Bundestaat Federation
 - .022 Confederation of states Staatenbund
 - Union of soveren states Alliance
 - .023 Suzerain states
 - .025 Semisoveren, dependent and vassal states
 - .026 Mediatized state
 - .027 Protected state
 - Protectorates, spheres of influence
 - Vassal states
 - .03 Empire, imperialism
 - .04 World state
 - .041 Internationalism

POLITICAL SCIENCE

- 321.07** **Ideal state** **Utopias**
 See also 335. Communism and socialism
- .09 **Change of form of state**
- .092 **Revolution**
- .094 **Coups d'état**
- .1 **Family** **Patriarchal age**
- .2 **Tribes** **Clans** **Marks** **Village communities**
 See also 333.2 Community ownership of land
- .3 **Feudalism**
- .4 **Democracy** Pure; e. g. Athens, town meeting
- .5 **Aristocracy** e. g. Italian republic; medieval German cities
- .6 **Absolute monarchy**
- .7 **Constitutional monarchy**
- .8 **Republic** Modern democracy, delegated powers
- 322** **Church and state** . See also 172.3, State ethics; 261.7, The church
 Political aspects of combination or separation of state and church affairs
- 323** **Internal relations with groups and individuals**
- .1 **Movement and questions of nationalities, races and languages**
 Divided by country like 930-999; e. g. struggle of nationalities in Austria 323.1436
 For emigrant nationalities in a country see 325
- .2 **Political struggles and troubles**
 Revolutions, revolts; riots, uprisings. See also 321.09
- .3 **The state and social groups**
 Classes, orders, estates
- .31 **Nobility, aristocracy; wealthy class**
- .32 **Middle class, bourgeoisie**
- .33 **Proletariat, laboring classes, peasantry**
 See also political economy, 331.8 Laboring classes
- .34 **Serfs** **Villinage** See 326.3 Serfs and serfdom
- .4 **The state and the individual**
 Natural rights, individual rights, individualism
- .41 **Equality of individuals, races, etc.**
- .42 **Equality before the law; justis, etc.**
- .43 **Life**
- .44 **Liberty**
- .441 **Freedom of action**
- .442 " " **conscience**
- .443 " " **speech**
- .444 **Academic freedom** See 378.121 Freedom of teaching
- .445 **Freedom of the press**
 See also journalism 070.13; administration 351.751
- .446 **Freedom of drama**
- .447 " " **art**
- .45 **Family**
- .46 **Property**

- 323.47 Right of assembly, association
- .48 Right of petition
- .49 Limitation and suspension of individual rights and guaranties
- .491 Martial law
- .492 State of siege
- .6 **Citizenship**
- .61 Laws Divided by country like 930-999
- .62 Naturalization
- .63 Alien races and citizenship
- .64 Loss and restoration of citizenship
- .65 Duties and obligations of citizens
Scholar as citizen
- .67 Rights of aliens
- .68 Eligibility to office
- 324 **Suffrage**
- .1 **Qualifications, conditions and bases**
- .11 Age
For sex see 324.3 Woman suffrage
- .13 Property
Household suffrage
- .14 Education Competency Capacity
- .15 Nationality Race Religion
- .16 Residence, domicile
Length of residence
- .162 Voting by soldiers
- .164 " " students
- .17 Exclusion from and suspension of suffrage
- .171 Incompetency, incapacity
Insane, idiots See also 324.14
- .172 Bankruptcy
- .173 Pauperism
- .174 Conviction of crime; bribery, selling vote
- .177 Government service
Military service: soldiers and sailors
Civil service, police officers
- .178 Other special classes
Students, domestic servants, etc.
- .2 **Forms of suffrage** **Systems** **Voting, etc.**
- .21 Electoral systems
- .211 Universal suffrage
- .212 Partial suffrage, limited
- .213 Plural vote
- .214 Class vote, class system
- .215 Compulsory voting
- .216 Short ballot
Aiming to reduce number of elective offices

POLITICAL SCIENCE

- 324.22 Constituencies and representation of interests
- .221 Single member constituency
 Scrutin d'arrondissement
- .222 Multimember constituency
 Scrutin de liste, block vote, general ticket
- .223 Minority representation
 Single vote, limited vote, cumulativ vote, proxy system
- .224 Proportional representation
 Preferential: alternative, contingent, transferable vote. Quota: simple.
 Droop, d'Hondt, substitute or Gove method. Graduated system. List
 system. For second ballot see 324.248
- .227 Economic and social groups
- .23 Selection of candidates
 Declaration and presentation of candidacy
- .231 Nomination of candidate
- .233 Party organization Conferences
- .235 Caucus primary
- .237 Direct "
- .239 Platform
- .24 Voting procedure
- .241 Electoral lists: formation, revision
- .242 **Registration system**
 Poll lists and tally sheets
- .243 **Jurisdiction Examination of credentials**
 Appeal, petition
- .244 Open voting
- .245 Secret ballot
- .246 Voting place
- .247 Absent voting Voting by mail
 Traveling salesmen, railway employees, mail clerks, etc.
- .248 Second ballot
- .249 Indirect voting Electoral college
- .25 Ballot
- .251 **Unofficial**
- .252 **Official**
- .253 Party ballots
- .254 **Blanket ballots**
- .255 Party colums
- .256 Offis groups Australian ballot
- .257
- .258 **Voting machines**
- .26 Results and announcements
 Inspectors of election, meeting, etc.
- .261 Count of ballot
- .262 Majority elects Absolute majority
- .263 Plurality " Relativ majority
- .268 Announcement of vote

- 324.27 Corruption Electoral fraud
 .271 Bribery and undue influence: intimidation, selling votes
 .272 Fraud in voting: personation, repeating, illegal voting, colonizing
 .273 Election contributions and expenditures
 Limitations on expenditures; publicity. Restriction on contributions, political assessments
 .274
 .275 Fraud in counting
 Miscount of ballots; certification of false returns
 .276
 .277 Election contests
 28 Suffrage reform
 .3 Woman suffrage
 .4-9 Suffrage by country
 Divided like 940-999

325 Colonies and immigration

- .1 **Immigrants** See also 323.6 Citizenship
 .2 **Emigrants**
 Divided by country of origin like 930-999. This brings together material on emigrants of a special country or race; e. g. Chinese emigrants 325.251. Material on emigrants is usually most important in respect to country of origin, so is best classed in 325.2. Most libraries will have little except on immigrants to their own country, hence in United States 325.2 will relate almost wholly to specific nationalities in United States; e. g. 325.26 Negro question
 .3 **Colonization**
 Divided by mother country like 930-999; e. g. 325.342 British colonies. This brings together colonies planted by a special country, but does not specify location of colony
 .4-9 **In special countries**
 Divided like 940-999, by country in which planted; e. g. 325.73. Foren population of United States. See note to 325.2 for a given nationality

326 Slavery See also 973.7 Civil war; 371.974 Education of freedmen

- .1 **Slave trade**
 .2 **Coolies and contract slaves**
 .3 **Serfs and serfdom**
 .4 **Antislavery documents**
 .5 " periodicals
 .6 " societies
 .7 **Proslavery**
 .8 **Emancipation and freedom**
 .9 **History of slavery** Divided geografically like 930-999
 .92 **Biography of slaves**

327 Foren relations Divided geografically like 930-999

328 Legislation, lawmaking

- Legislativ bodies and annals
 .1 **Parliamentary law**

325.25
 oriental

tegenwoordig 323.6

321.8 Teaching
 the emigrants

.493 Belg

327.51 chin

.52 Japa

.73 U.S.

328.2 Legislation

- .21 Interpretation of law
- .22 Uniform laws
 - Uniformity of law on same subject in different states or countries
- .23 Codification
- .24 Policy Tendencies
- .241 Overlegislation
- .243 Special legislation For private and local bills see 328.378
- .25 Legislative powers
- .251 Juridic “
- .252 Executiv “
- .253 Implied “
- .256 Restrictions and checks on legislation See also 328.349
- .26 Direct legislation
- .261 Initiativ
 - Voters by petition originate legislation
- .264 Referendum
- .27-.29 Subjects of legislativ action Divided like 351.7-351.9

.3 Legislatures

Summary

- 328.3 Legislatures
 - .31 Upper house
 - .32 Lower “
 - .33 Membership Election
 - .34 Prerogativs and powers
 - .35 Sessions
 - .36 Internal organization and disciplin
 - .37 Legislativ procedure
 - .39 Form of legislature
- .31 Upper house
- .32 Lower “
- .33 Membership Election
- .331 Conditions of membership, eligibility
 - Age, residence, property Membership without voting power
- .332 **Exofficio members**
 - 1 Cabinet and government offisers
 - 2 Expresidents
 - 3 Other exoffisers
 - 4 Clergy, bishops
- .333 Compensation
 - Annual salaries, per diem payment. Milage, traveling expenses. Special sessions. See also 328.347 Privileges
- .334 Representation
 - 1 of states
 - 2 territories
 - 3 colonies and dependencies
 - 4 classes
 - Universities, landowners, Irish and Scotch peers
 - 5 of election districts **Apportionment**
 - Equalization of representation; unfair apportionment; ‘rotten boros’ reapportionment
 - 6 **Gerrymandering**
 - 9 **Number of members**

- 328.335 Methods of appointment Election
 1 **Appointment by government or crown**
 For life or for a term
 2 **Hereditary right**
 3
 4
 5 **Election by direct vote: plurality or majority**
 6 **Length of term**
 Entire or partial renewal of membership; holdover member
 7 **Vacancies, resignations**
 Method of filling vacancies; special elections
 8 **Contested elections**
 .338 Official membership lists, directories
 .339 Unofficial lists or directories
 .34 Prerogatives and powers Restrictions
 .341 Power over revenue and appropriation
 .342 " to judge of elections
 .343 " over members
 Power to investigate or punish members
 .344 Power of expulsion
 .345 " over government officers
 Power of investigation for impeachment, see 351.96-.99
 " to imprison citizens
 .346 Treatymaking power
 .347 Privileges
 Franking privilege, postage and stationery; railroad passes; free distribution
 of books
 .348 Immunities
 From arrest
 .349 Restriction
 Offsholding Instructions by electors
 Direct mandate See also 328.26 Direct legislation
 .35 Sessions
 .351 Method of summoning
 Parliamentary writ
 .352 Date of session
 Fixed or movable
 .353 Frequency of sessions
 Annual, biennial, quadrennial
 .354 Length of session Life of legislature
 .355 Recess
 .356 Adjournment Prorogation Dissolution
 .357 Executiv session: procedure
 .358 Special session Extra session

POLITICAL ECONOMY

- 328.36 Internal organization and disciplin
 Verification of powers, credentials
- .361 Oath of offis
- .362 Offisers: appointment, election
- 1 Presiding offiser, speaker
- 2 President protem
- 3 Secretaries, clerks
 Bill clerk Enrolling, engrossing clerks
- 4 Sergeant at arms
- 5 Pages, messengers, door keepers
- 6 Payment of employees: gratuities, fees, extra pay
 Unnecessary attendants
- 7 Committees
 Standing, special, joint
- 8 Special commissions
 For investigation, not administrativ commissions
- .363 Records
- .364 Supplies: daily papers, postage stamps
 Telegraf and telefone bills
- .365
- .366 Disciplin: suspension, investigation
- .367 Bribery Illegal practises
 Graft bills, blackmail
- .368 Lobbying
 Including that by heds of depts and institutions
- .37 Legislativ procedure
- .371 Rules, manuals
 See 8 under 328.4-.9 divided by country
- .372 Petition, addresses
 Parliamentary inquiries, commissions
 Recommendations from executiv
- .373 Bills
 Technic: bill drafting, introduction
 Printing, enrolling, engrossing
- .374 Action by legislature before passage
- 1 Readings: 1st, 2d
- 2 Reference to committees
 Committee work or procedure: investigation, hearings, conferences
- 3 3d reading
- 4 Contest over passage
- 5 Party caucuses, logrolling
- .375 Final passage
 Rules committee, ' lifting ' committee, ' steering ' committee
 Vote: viva voce, by roll call; by ballot; obligation of voting in person,
 pairing
 Required majority. Veto, see 353.03
 Passing over veto. Bills left in hands of executiv: 30 day bills, pocket
 veto
 Bills which become law without executiv action
- .376 Special bills
 Financial, omnibus riders
- .377 Joint resolutions
- .378 Local and private legislation
- .379 Procedure in special cases
- 1 Impeachment

DECIMAL CLASSIFICATION

- 328.39 Form of legislature
- .391 One chamber
- .392 Two chambers
See also 328.31 Upper chamber; 328.32 Lower chamber
- .393 Other forms
- .394 Reform
- .395 Abolition
- .4-9 Of special countries

51 China - constitutional govt

Divided by countries like 940-999, and under each, works may be divided:
1 Journals 3 Abstracts 5 Rules 9 History of bodies
2 Debates 4 Documents 8 Legislativ manuals

329 Political parties Party conventions

329.01 U. S. presidential campaign documents of all parties, arranged by campaigns

- .1 Federal
- .2 Anti-Federal
- .3 Democratic
- .4 Whig
- .5 American Knownothing
- .6 Republican
- .7
- .8 Minor parties
- .9 Parties in other countries

.81 Prohibition, see also 178.5 Ethics; .82 Greenback, see also 332.5, Paper money;
.83 Woman suffrage, see also 324.3 Woman suffrage; .84 People's; .85 Labor
see also 331.8 Laboring classes

Divided geograficly like 940-999

330 Economics Political economy

- .1 Theory
 - .11 General conception Nature and character
 - Definition Limits and extent
 - .12 Classification Divisions
 - .13 Importance Utility
 - .14 Language, terminology, symbols, abbreviations
 - .15 Scientific systems
 - .151 Mercantil system
 - .152 Physiocrats
 - .153 Laissez faire
 - .154 Historic school
 - .19 Relations to other classes
 - Divided like the Classification
 - .1917 to ethics
 - .1932 " politics
 - .198 " literature
 - .2 Compendis
 - .3 Dictionaries
 - .4 Essays
 - .5 Periodicals
 - .6 Societies
 - .7 Study and teaching
 - .8 Polygraphy
 - .9 History
 - .90 By periods
 - .901 Primitiv -476 A. D.
 - .902 Medieval 476-1500 A. D.
 - .903 Modern 1501-1900 A. D.
 - .904 20th century
 - .92 Biograpy
 - Preferably clast in 923.3
 - .93-.99 History divided by country like 930-999

Economic theory
Value
Prices
Wealth
Labor swage theory
Rent land
Distribution
Consumption
Population
crises

330.9 - Reconstruction
Economic
Political

331 Labor and laborers Employers Capital

- .01 Theory
 - .011 Freedom of labor
 - .012 Importance, utility, dignity of labor
 - .013 Psychology of labor
 - .015 See 150 Psychology
 - .02 Compendis
 - .03 Dictionaries
 - .04 Essays, addresses
 - .05 Periodicals
 - .06 Societies, bureaus, etc. *Year books*
 - .061 Government departments, bureaus
 - .062
 - .07 Education Exhibitions
 - .08 See also 371.42, 607, and education in special subjects
 - .08 Collected works
 - .09 History

- 331.1 **Relations of capital to labor**
 Industrial arbitration. Disciplin: deductions, stoppage, fines
- .2 **Remuneration for work**
 Wages, hire, pay, salary, fees
- .21 **General**
- .211 Statistical theory
- .212 Wage fund
- .213 Relation of wages to production
- .214 " " " " cost of living Living wage
- .215 Minimum wage
- .22 Wage scales: scale contracts, sliding scale
- .225 Extra pay
 Extra wages, efficiency bonus, subsidies, bounties; progressiv wage. For deductions, stoppage, fines, etc. see 331.1
- .23 Bases of wages and methods of payment
- .231 By work done
 Job, task, piece. For farming out, sweting system, see 331.236
- .232 By time: hour, day, week, month, year
- .235 Methods of payment
 Truck system, store orders, shares, payment in kind
- .236 Intervention of middleman
 Subcontract, sweting system, commissions
- .238 Payment by other then employer: fees, tips, etc.
- .24 Profitsharing
- .25 Pensions Insurance
 Old age, sickness, accident
- .26 State and wages
- .261 Legislation Laws
- .262 Wages for state labor
- .27 Professional remuneration
- .28 Wages divided by trade
- .29 " " " country
- 150.262 - 3 **Labor of children** See also 179.2 Cruelty to children
- .4 **Labor of women** See also 396.5 Woman
- .5 **Work at reduced wages**
- .51 Prisons Convict labor
 See also 365 Prisons
- .52
- .53 Convents Ouvroirs (workshops)
 Ouvroirs are charity workshops paying beneficiaries nominal wages and market ing products at prices so small as to lower wages of selfsupporting workers
- .54 Contract labor
- .55 Apprentis labor
 See also 331.86 Training, apprentisship
- .56 Peonage
- .57 Compulsory labor Corvée
- .58 Slave labor
 See also 326 Slavery
- .6 **Pauper labor Cheap foren labor Chinese**
 See also 339 Pauperism; 362.5 Asylums

- 331.7 Skild and unskild labor**
- .8 Laboring classes**
 - .81 Duration of work Rest
 - .811 Length of day
 - 8-hour day, 10-hour day, etc. Shifts of work
 - .812 Night work
 - .813 Sunday work
 - .814 Overtime Supplementary hours
 - .815
 - .816 Vacation Leave of absence
 - .817 Holidays
 - Weekly rest, Sundays, labor festivals, May 1, festivals of patron saints
 - .818 In special trades
 - .819 " " countries
 - .82 Places of labor Dangers
 - See also 613.6 Hygiene; 622.8 Mining; 614.8 Protection of life
 - .83 Food Clothes Shelter See also 640 Domestic economy
 - .84 Morals and habits: thrift, temperance, amusements, temptations
 - See also 170 Ethics; 790 Amusements; 263.6 Sunday
 - .85 Helps: lectures, libraries, reading rooms, etc.
 - Social settlements See also 374.5 Home education; 020 Libraries; 263.7 Sunday
 - .86 Training Apprentisship
 - .87 Organization of labor
 - .88 Trade unions and other labor societies
 - See also 338.6 Gilds
 - .89 Strikes
 - Combinations of workmen. Retaliation by employers
 - .891 **Attacks on freedom of work**
 - Picketing; methods of intimidation; scabs
 - .892 Sympathetic strikes
 - .893 Boycotting
 - .894 Blacklisting Laying under interdict
 - .895 Lockouts

332 Private finance

- .1 Banks and banking**
 - See also 334.2 Cooperativ banks
 - .11 National Federal reserv
 - .12 State
 - .13 Private
 - .14 Trust companies
 - .15 Foren *Foreign exchange*
 - .2 Savings banks
 - Postal savings banks. See also 383

- 332.3 Loan institutes and special loans
- .31 Credit institutes
 - .311 Agricultural banks and credits
 - See also 631.16
 - .312 Manufacturers credits
 - .313 Loans on chattel mortgages
 - .314 " " salaries
 - .315 " " wages
 - .32 Bilding associations See 334.1 Cooperation
 - .33 Monts de piété Governmental
 - .34 Pawn shops Private
 - .4 Money Coins and coinage
 - .41 Coinage metals: production and value; gold, silver, nickel, copper
 - .42 Single and double standard
 - .43 International standards
 - .44 Monetary congresses
 - .45 Comparativ value of moneys
 - .46 Mints
 - .47 Coinage laws
 - .48
 - .49 In special countries Divided geografcly like 940-999
 - History, reports and laws
 - .5 Paper money Public and private notes See also 329.82
 - .6 Stocks and stock exchanges Bonds
 - .7 Credit Credit system
 - .8 Interest and usury See also 336.31 Public securities
 - .9 Counterfiting Forging See 343 Criminal law
- 333 Land: ownership, rights, and rent
- For other relations see Land in Relativ index following Tables
- .09 Special countries, divided like 930-999
 - .1 State ownership
 - .2 Community ownership
 - See also 321.2 Village communities
 - .3 Private ownership
 - .4 Absentee owners Alien owners
 - .5 Rent of land for cultivation
 - Class here general works on rent
 - .6 Rent of land for bilding
 - .7 Special classes of land: forests, pasture, waste
 - .8 Mines
 - .9 Water rights: litoral, riparian, irrigation

speculations

334 Cooperation

- .1 **Bilding societies: loans, organization** See also 332.32
- .2 **Cooperativ banks** See also 332 Banks
- .3 " **insurance societies** See also 368 Insurance
- .4 " **housekeeping** See also 647.93 Domestic economy
- .5 " **consumptiv associations** Stores
- .6 " **productiv associations** Factories
- .7 **Friendly societies**
- .8 **Burial societies**

335 Socialism and communism

See also 334 Cooperation
or Theory of property

- .1 **English socialism**
- .2 **Saint Simonism**
- .3 **Fourierism**
- .4 **Communism**
- .5 **German socialism** Social democracy
- .6 **State socialism** Socialism of the chair
Professorial socialism
- .7 **Christian socialism**
- .8 *Gild socialism*
- .9 **Socialist communities**
Divided by countries like 930-999

336 Public finance

Federal and state. For local finances see 352.1

- .1 **State domain and properties**
- .11 Management and income from rents
- .12 Sale
- .13 Land claims
- .14 Land grants to railroads, colleges, etc.
See also 379.123 Education
- .19 State monopolies
e. g. French state monopoly of tobacco trade. See also 338.8 Monopolies
- .2 **Taxation**
- .21 Direct
- .22 Real estate
- .23 Personal property
- .24 Income
- .25 Poll
- .26 Customs: specific or ad valorem
Regulations. Schedules of duties. See also 337 Protection
- .27 Excise, licenses, special taxes
Liquor, dog, legacies, stamp duties
For other relations see License in Relativ index following Tables
- .28 Local taxes See also 379.13 School funds
- .29 Assessment and collection of taxes Exemptions

- 336.3 Loans Public securities
 .31 Interest-bearing securities See also 332.8 Interest
 .32 Floating det
 .33 Sinking fund
 .34 Public credit
 .35 Annuities
 .36 Repudiation
 .4-9 Finance of special countries Divided geograficly like 940-999

337 Protection and free trade

See also 336.26 Customs

- .1 Absolute free trade No tarif
 .2 Free trade: i. e. tarif for revenue only
 .3 Protection
 Class in 337.2 discussions or histories which are arguments for free trade
 When doubtful prefer 337.3, the general number for discussions
 .4 Subsidies
 .5 Duties on special articles: steel, wool, etc.
 .6 " " raw materials
 .7 " " books and works of art
 .8 Duty free importation for colleges, etc.
 See also 021.861 Libraries
 .9 Reciprocity

338 Production, Manufacture, Prices

Marketing

- .1 Agricultural products - *Marketing*
 .2 Mining products See also 332.41 Coinage metals
 .3 Water " Fish, ice, etc.
 .4 Manufactured products - Machinery in industry
 .5 Prices - *Cost of living* \$
 .6 Gilds See also 331.88 Trades unions
 .7 Corporate industries
 .8 Monopolies Trusts See also 336.19 State monopolies
 .9 Industrial legislation Divided geograficly like 940-999

339 Consumption of welth Pauperism

Conservation; restrictions on use or waste of materials and natural resources
 See also Pauper, Pauperism, Welth, in Relativ index following Tables

see also 331.261

340 Law

General works Most periodicals belong in Private law, 347.05

- .1 Philosofy Theories Law of nature
 .3 Antiquities: torture, trial by ordeal, duel, etc.
 .4 Trial by jury
 .5 Comparativ legislation
 .6 Medical jurisprudence See also 614.23 Expert testimony
 .7 Education Law school Offis training
 .8 Polygrafy Collections
 .9 Legal anecdotes and miscellany

Public law

341 International law

.01 Philosophy; .02 Compends, etc. like 300

.1 International congresses

Of diplomatic agents for settling international relations; Hague tribunal, League of Nations. Congresses on special topics go with their subjects; e. g. 332.44 on Coinage

.2 Treaties: texts and history

Class with most important country, dividing like 940-999

.3 Law of war Captives Neutrals

.4 International criminal law

.5 International private law

.6 Arbitration

.7 Diplomacy

.8 Consular systems

342 Constitutional law and history

Divided by countries like 930-999. Under each, works may be divided: 1 Texts of constitution; 2 Conventions; 3 Systems, commentaries; 4 Essays; 8 Polygraphy; 9 History

For Administrativ law, see 350

343 Criminal law

.1 Criminal trials

.2 Punishments

Corporal. Deth penalty. Hard labor. Confinement

.3-9 Of special countries Divided by countries like 930-999

Under each country, works may be divided: 1 Penal codes; 2 Reports; 3 Criminal procedure; 4 Text books and manuals

344 Martial law

Private law

345. United States statutes and cases

Divide each of the sections .1-.5, using 1 U. S.; 2 Individual states arranged alphabetically: e. g. Statutes at large of U. S. 345.11; Acts and resolves of Mass. 345.12

.1 Session laws

.2 Codes Revised statutes

.3 Law digests (of statutes)

.4 Reports

Use .4 U. S. supreme court; .41 U. S. circuit and district courts; .415 Periodical collections of various states; e. g. Eastern Reporter, etc; .42 Reports of individual states

.5 Digests of cases

- 346 British statutes and cases
 Divided like 345. Includes all reports in English language except U. S. reports
- 347 Treatises American and English private law
 .01 Philosophy .02 Compendis .03 Dictionaries .04 Essays .05 Periodicals
 .06 Societies, bar associations .08 Polygraphy .09 History
 Put law of special topics with the subject; e. g. Insurance law, 368. The divisions
 .1-8 may be disregarded and all English law textbooks arranged in one alfabet by
 authors. An elaborate division, similar to Medicin, will be publisht after farther
 revision
- .1 Persons Legal capacity
 .2 Realty
 .3 Chattels Movables
 .4 Contracts
 .5 Torts
 .6 Family law and inheritance
 .7 Commercial and maritime
 .8 Equity
 .9 Civil trials Procedure
 .91 Civil trials
 .92 Pleading
 .93 Forms
 .94 Evidence Testimony in general not limited to civil trials
 .95 Remedies
 .96 Justises of the peace Notaries Sheriff
 .97 Organization of courts
 .98 Jurisdictions
 .99 History of special courts
- 348 Canon law
- 349 Foren law
 Divided like 930-999, and under each modern state divided like 345 with decimals
 .71 — .79 used for Treatises like 347; e. g. 349.4475 is French law of torts, 349.442
 is French code. Roman law is divided:
- .37 Roman law
 .01 Philosophy .02 Compendis .03 Dictionaries .04 Essays .05 Periodicals
 .06 Societies .07 Education .08 Polygraphy .09 History
- .371 Sources: Ante-Justinian
 .372 “ Justinian
 .373 History and criticism of sources
 .374 Institutes: ancient Roman law
 .375 Pandects: modern “ “
 .377 Treatises on special topics
 Divided like 347

350 Administration

Including Military science. .1 Theory; .2 Compendis; .3 Dictionaries; .4 Essays; .5 Periodicals; .6 Societies; .7 Education; .8 Polygraphy; .9 History
 A large number of the questions properly placed under Administration are class with related topics elsewhere. Some of these are repeated here, both to show the scope of the subject 'Administration' and to provide for cross references by those specially interested. See also 342 Constitutional law and history

351 Administration of central government

- .1 **Organization of civil servis**
 Officers Method of selection: election or appointment Official functions and powers Mutua. relations
- .2 **Civil lists**
- .3 **Examination**
- .4 **Tenure of offis Disciplin** See 351.92 Power of removal
- .5 **Pensions**
- .6 **Reform Spoils system vs offisholding class**
- .7 **Subjects of administrativ action**
 See also 353 United States; 354 Foren states
- .71 **Financial administration**
 See 336 Public finance, public property, taxation
- .72 **Budget Public accounts**
- .73 **Internal affairs** See also 323 Domestic relations
- .74 **Police mesures**
- .75 **Public safety and order** See also 352.2 Police; 365 Prisons, etc.
- .751 **Press**
- .752 **Reunion and association**
- .753 **Wepons**
- .76 **Vice and good manners**
- .761 **Liquor regulation** See 178 Temperance
- .762 **Public gaming** See 174.6 Ethics
- .763 **Public begging** See 339 Pauperism
- .764 **Prostitution** See 176.5 Ethics
- .77 **Sanitary police**
 See 352.4 Boards of helth; 614 Public helth, etc.
- .78 **Accidents** See 614.8 Public helth
- .781 **Bildings** See 614.85
- .782 **Fires** See 614.84

- 351.8 Promotion of public welfare
- .81 **Means of communication**
 See 380 Commerce, communication
- .811 Highways See 386; 352.7 Local government
- .812 Railways See 385
- .813 Waterways See 386; 387
- .814 Ferries
- .815 Bridges See 352.7 Local government
- .816 Postoffis See 383
- .817 Telegrafs See 384
- .82 **Trade and industry**
- .821 Weights and mesures See 389 Commerce
- .822 Coinage and money See 332 Banks, money
- .823 Landed industry
 Agriculture See 630 Useful arts; 338.1 Production
 Forests See 634.9 Agriculture; 333.7 Land
 Mines See 622 Mining; 338.2 Production; 333.8 Land
- .824 Commercial and manufacturing industry
 See 380 Commerce; 338 Production
- .825 Institutions of credit See 332 Banks, credit
 Savings banks See 332.2
 Mutual benefit societies See 334 Cooperation
 Insurance See 368; 334.3 Cooperativ insurance
 Monts de piété See 332.33
- .83 **Labor** See 331 Capital, Labor, Wages
- .84 **Public charity**
 See 339 Pauperism; 360 Associations and institutions
- .85 **Education and worship**
- .851 Public education See 379 Education
- .852 Public libraries See 027.4 Library economy
- .853 Art museums See 708 Art
- .857 Worship See 322 Church and state
- Military and naval See 355-359 Army and Navy
- Justis See 340 Law
- Foren affairs See 341 International law; 327 Political science
- .9 **Control over the administration**
- .91 Administrativ control By superior officers
- .92 Disciplinary power
 Power of removal. See also 351.4 Tenure of offis
- .93 Supervision
 Power to annul or amend specific acts
- .94 Judicial control
- .941 **Ordinary courts** See 347.5 Law of torts
- .945 **Criminal courts** See 343 Criminal law
- .95 Administrativ courts
- .96 Parliamentary control
- .97 Petitions and addresses
- .98 Investigations
- .99 Impeachment

352 Local government: county, town, city

See also 379 Public schools; 020 Libraries

General questions of municipal administration

- .001 Growth and importance of cities
- .002 Cities and state control
- .003 City as a juristic person, a corporation
See also 347.1 Law of corporations
- .004 City organization, municipal elections
- .005 Municipal civil servis

Local administration of special countries and cities

.03-.09 divided by countries like 930-999

.042 **Local government in England**

Arrange matter relating to special cities alfabetically by name of city and subdivide the remaining works as follows:

- 1 County
- 2 Municipal boro
- 3 Parish
- 4 Union See 339 Pauperism
- 5 Sanitary districts See 614 Public helth
- 6 School districts See 379 Education
- 7 Highway areas See 352.7

.043 **Local government in Germany** Special cities like 352.042

- 1 Province: landtag, provincial committee, director
- 2
- 3 Circle Circle diet Circle committee Landrat
- 4 Commune
- 5 Towns
- 6 Township

.044 **Local government in France** Special cities like 352.042

- 1 Department
- 2 General council
- 3 Departmental commission
- 4 Prefect
- 5 Arrondissement
- 6 Commune
- 7 Mayor
- 8 Municipal council

.1 **Finances: city property and local taxation**

See also 336 Public finance

.2 **Police**

.3 **Fire department** See also 621.68 Fire engins; 614.84 Fires

.4 **Public helth: board of helth** See also 614 Medicin

.5 **Public bildings and works**

- .6 Water and sewerage works See also 628 Sanitary engineering
- .7 Streets Highways Bridges Parks
See also these topics in Relativ index for other relations

.8 **Licenses: hack, huckster, entertainment, etc.**

.9 **Other topics**

electric light plants

353 United States and state government

Operation of government, except legislative branch. For U. S. congress and state legislatures see 328.73--798, where also are department reports in sets of congressional and state documents. Class separates of such reports with their subjects or with their respective departments in 353.1--97988 when they have no definite place elsewhere in the classification; but report of bureau of education 379.73, of agriculture dept 630.6 See also 342.73 Constitutional law and history

- .01 Administrativ centralization
- .02 Separation of powers
- .03 President
- .04 Departments
- .05 Cabinet
- .1 State department
- .2 Treasury department
Laws and rules governing treasury; but class reports 336.73 U. S. Finance
- .3 Interior department
- .4 Postoffice department
See 383 Postal service
- .5 Judiciary department
- .6 War department
See also 355 Army; military science
- .7 Navy department
See also 359 Navy; naval science
- .8 Other departments
- .9 State government Divided like 974-979
Apply same decimals for state and foreign governments. For departments not here specified use .8 and .9 and any of above numbers left blank; e. g. for a state having no navy, .7 is free for some local use. Judiciary dept of D. C. 353.97535 353.9 includes history of regiments, unless covering a particular period of national history; e. g. the "history of the N. Y. 7th regiment in the civil war" is attracted to 973.74, but a general history of the same regiment is 353.97476

354 Organization of central government Foreign states

See also 342 Constitutional law and history

Divided geographically by countries like 930-999. Under each country the U. S. divisions, 1 State, 2 Treasury, etc. may be used; e. g. State department of Great Britain, 354.421. Add also the following divisions:

- .42 Administration of England Central government
 - 01 Administrativ centralization
 - 02 Separation of powers
 - 03 Monarch
 - 04 Privy council
 - 05 Cabinet
- .43 Administration of Germany Central government
 - 01 Administrativ centralization
 - 02 Separation of powers
 - 03 Empire
 - 04 Bundesrat
 - 05 Emperor
 - 06 Ministry
 - 07 States Monarchs
 - 08 Landtag Ministers Council of state
 - 09 Free cities
- .44 Administration of France Central government
 - 01 Administrativ centralization
 - 02 Separation of powers
 - 03 President
 - 04 Ministers
 - 05 Council of state

355 Military science Army

Military in broad sense of land and sea forces; but limited to military science, tactics, etc. For War department of U. S. see 353.6; for history of regiments see, 353.9 and subdivision 4 under special wars in 973; e. g. Mexican war being 973.62, regimental history of that war is 973.624. See also 623 Military engineering
 .01 Theory .02 Compendis .03 Dictionaries .04 Essays .05 Periodicals
 .06 Societies .07 Education .08 Polygrafy .09 History

.1 Military life

Including honor, honors and insignia, and standards

.11 Servis periods and retirement

.114 Termination of servis Resulting status

.12 Military life in peace and war

.13 Military honor Disciplin

Professional morality; rewards

.14 Uniforms

System; distinguishing rank; style, color and esthetic considerations

See also 355.81 Clothing of troops

.15 Colors and standards

.16 Military celebrations

Commemorations, anniversaries, jubilees

.2 Military resources

.21 Preparedness

Rediness of resources for mobilization

.22 Men Recruitment

Voluntary and compulsory enlistment; recruits from military schools. Obligations of citizens with respect to national defense

For relations of government to maintenance of public order see 351.74 Government police mesures

.23

.24 Raw material

Agricultural, mineral, etc.

.25

.26 Manufactures, industries

.27 Transportation

Roads, railroads, canals, ships

.3 Organization of military forces

.31 Army units and organization

For special arms see 356 Infantry, 357 Cavalry, 358 Artillery. For classification according to military obligation and field of servis see 355.35

.33 Officers Military hierarchy

.33I Command in general

General principles and rules of command, whether of large or small units

.34 Special servis

Outside the regular arm or grade

.35 Armies General staff

Armies clast according to military obligation and field of servis; e. g. European armies of first line, 2d line, colonial armies

For military units see 355.31

- 355.4 **Tactics and strategy**
 - .41 Logistics and field servis
 - .42 General tactics
 - See each arm for its peculiar tactics
 - .43 Strategy
 - .44 Siege warfare
 - For siege engineering see 623.2
 - .45 National defense
 - .47 Military geografafy
 - Divided like 930-999
 - Geografic works from military point of view and works on strategic conditions of theaters of operations
 - .48 Wars, campains, battles, military exploits
 - Better clast with wars to which they belong in 930-999
- .5 **Servis**
 - Garrison and field servis, mobilization; instruction of troops and subaltern grades: maneuvers
- .52 Grand maneuvers Instruction camps
- .6 **Military administration**
 - Class here only what concerns the workings of administrativ servises. For personnel and organization of these servises see 356.3
- .7 **Military establishments**
 - Organization and servis
 - See also 359 Naval establishments
 - 623.63 Military establishments (military engineering)
 - 725.12 Architecture of military bildings
- .8 **Military equipment and supplies**
 - .81 Clothing Camp outfit
 - .82 Small arms and ammunition
 - Administrativ questions: working and reserv supply; storage, issue, etc.
 - For mechanism and relativ efficiency of different kinds see 623.4.
 - .83 Wagons Harness Transport outfit
 - .84 Pioneering tools
 - .85 Other tools Instruments
- 356 **Infantry**
 - 1 **Organization**
 - Light infantry, mounted infantry, cyclist infantry
 - .12 Special colonial infantry
 - .13 Organizations eventually subject to mobilization
 - .14 Volunteer corps
 - .15 Irregular troops
 - 'Corps francs' existing only during war
 - .16 Special infantry troops
 - Sharpshooters, etc.
 - .2 **Staff and special servises.**
 - .3 **Administrativ staff and servises**
 - Personnel and organization

- 357 Cavalry Mounted services
 .1 Cavalry proper
 .2 Remount and training services
 .3 Army train
- 358 Artillery, engineers and other technical services
 For ordnance, gunnery, etc. see 623 Military engineering
 .1 Artillery
 .2 Engineers
 .3 Other technical services

359 Naval science
 Divided by .01-.09 like 355. See also 623.8 Naval architecture

360 Associations and institutions

This covers what is best known as "Charities and corrections," and general works on this topic go in 360. Under each section .9 is used as in 362.9, for grouping by location; e. g. Clubs of London are 367.9421

361 Charitable
 See also 377.7 Charity schools. For humane societies see 179.2

362 Hospitals, asylums, and allied societies

.1 Sick and wounded Incurables Eye and ear infirm-
 aries Lying-in hospitals Dispensaries

.2 Insane

For other relations see Insane, Insanity in Relativ index following Tables

.3 Idiotic

For other relations see Idiocy, Idiots, in Relativ index

.4 Blind Def Dum

See also 371.91 Education

.5 Paupers

For other relations see Pauperism, Paupers, in Relativ index

.6 Aged Invalids Bereft

Mothers pensions Aid in cases of death

.7 Children Orphans Foundlings

Child welfare See also ethics, 179.2 Cruelty

.8 Other

.9 Special countries

Divided like 930-999; e. g. 362.942 Hospitals of England

363 Political

Tammany, Primrose leag, Ku Klux, etc.

364 Reformatory Criminology

Schools; discharged convicts; criminal classes

365 Prisons Disciplin

See also 331.5 Convict labor

366 Secret societies

.1 Masons .2 Knights of Pythias .3 Odd Fellows .4 Rosicrucians

See also 371.85 College secret societies

367 Social clubs

368 Insurance

See also 334.3 Cooperativ insurance

- .1 Fire
- .2 Marine
- .3 Life
- .31 Annuities
 - See also 336.35 Public annuities; 519.5 Probabilities
- .4 Accident Liability
- .5 Animal and crop, agriculture
- .6 Plate glass
- .7 Boiler
- .8 Credit and bonds Land titles
- .91 Government control Commissioners
 - .91-.99 divided geografically like 940-999; e. g. Insurance in New York (including state reports, etc.) is 368.9747

369 Other associations and institutions

- .1 Hereditary and patriotic societies (American)
 - .11 General associations
 - .111 Regular army and navy union
 - .112 Society of veterans of the regular army and navy
 - .113 Military and naval order of the United States
 - .114 Medal of honor legion
 - .115 Military order of foren wars of the United States
 - .116 Order of the old gard
 - Incorporated 31 Jan. 1896; organized 15 Oct. 1896
 - .117 Naval order of the United States
 - .118 Society of American wars
 - .119
 - .12 Colonial societies
 - .121 Society of colonial wars
 - .122 Society of colonial dames of America
 - A New York society with chapters in other states; known also merely as Colonial dames of America
 - .123 National society of colonial dames of America
 - A federation of separately incorporated societies in about 40 different states
 - .124 Society of the Mayflower descendants
 - .125 Order of the founders and patriots of America
 - .126 Colonial order of the acorn
 - " society of Pennsylvania
 - " daughters of the 17th century
 - .13 Revolutionary societies
 - .131 Society of the Cincinnati
 - .132 Society of the daughters of the Cincinnati
 - .133 Sons of the American revolution
 - .134 Sons of the revolution
 - .135 Daughters of the American revolution
 - .136 Daughters of the revolution
 - .137 Children of the American revolution

SOCIOLOGY

369.14

- .141 Society of the war of 1812
- .142 United States daughters of 1776-1812
- .143 Military society of the war of 1812
- .144 Society of the second war with Great Britain in the state of
New York
- .145 Aztec club of 1847
- .146 National association of veterans of the Mexican war
- .147
- .148
- .149

.15

Civil war societies, Union

- .151 G. A. R. (Grand army of the republic)
- .152 Military order of the Loyal legion
- .153 Society of loyal volunteers
- .154 Union veterans union
- .155 Union prisoners of war association
- .156 Society of the army and navy of the Gulf
- .157 National association of naval veterans
- .158 Society of the army of the Cumberland
- .159
- .16
- .161 Woman's relief corps
- .162 Woman's veteran relief union
- .163
- .164
- .165 Society of the sons of veterans, U. S. army
- .166
- .167
- .168
- .169

.17

Civil war associations, Confederate

- .171 Confederate survivors association
- .172 Confederate veterans association
- .173 United sons of confederate veterans
- .174 " confederate veterans
- .175 Daughters of the confederacy
- .18
- .181 Spanish war veterans
- .182 Society of the army of Santiago de Cuba
- .183 Naval and military order of the Spanish American war
- .184
- .185

.186

Societies arising from Great war of 1914-19

.4

Young peoples societies

For religious societies see 267.6

.41

Mixt: boys and girls

.42

Boys

See also 136.77 The 'gang'

.43

Boy scouts

.46

Girls

.47

Campfire girls

370 Education

Disciplin in broad sense

- .1 **Theory of education** **Meaning** **Aim**
Including philosophy of education, science of education and general methodology. Not limited to any curriculum, school or class of schools. For specific methods, pedagogics, see 371
- .109 **History of educational theory**
- .15 **Psychology applied to education**
Imitation, suggestion, play, etc. Divided like 150 Psychology; e. g. function of memory in education 370.154
- .2
- .3 **Dictionaries** **Cyclopedias**
- .4 **Essays** **Addresses**
- .5 **Periodicals**
General. For periodicals limited to a special topic see that topic; e.g. kindergarten magazines 372.205. See also 371.805, 378.05
- .59 **Educational almanacs and kalendars for teachers**
- .6 **Organizations** **Conventions**
- .61
- .62 **Associations** **Clubs**
Permanent societies, their meetings and reports. Divided like 940-999
- .63 **Congresses** **Conventions**
Occasional congresses and conferences: international or interstate
- .7 **Study of education** **Institutions and organizations for training teachers**
Means and methods, including normal schools, institutes, etc. For need of training, kind and amount, see 371.12
- .71 **Teachers meetings**
Class meetings of teachers of a single institution (faculty meetings) with the institution; see table for school and college publications under 378.4-9
- .711 **Plan and organization**
Frequency, time, place, control, cost, etc.
- .712 **Programs, courses of study**
- .714-9 **In special places**
Divided geografically like 940-999
- .72 **Teachers institutes**
Divide like 370.71 above
- .73 **Normal schools**
Institutions primarily for training teachers; e.g. state normal schools, Teachers college of Columbia university; often with attacht 'model' or practis schools, in which normal students teach under supervision of their instructors. For training classes attacht to regular schools see 370.75
- .731 **Plan and organization** **Aims and functions** **Scope**
Length and time of terms. Support: public, private
- .732 **Courses, programs** **Credentials**
- .733 **Adjuncts: practis or model schools**
- .734-9 **Special countries and schools**
Divided geografically like 940-999
- .74 **Education museums**
Including exhibits at international expositions, state and county fairs, etc.
- .75 **Training classes**
Class here teachers classes attacht to regular schools. For normal schools see 370.73
- .8 **Polygrafy**
- .81 **Collected writings of a single author**
If not limited to a definit topic; e.g. Horace Mann, Henry Barnard, etc.
- .82 **Collected writings of several authors**

SOCIOLOGY

- 370.9 **History, description**
 General works covering both ancient and modern history, and including history of institutions, practice, and description of conditions. See also 136.791 The child among uncivilized and semicivilized peoples
- .92 **Educational biography**
 Preferably class in 923.7
- .93-9 **History of education in special countries**
 Subdivided like 930-999
- .9401 **Medieval Europe**
- .9405 **Modern Europe**

371 **Teachers Methods Disciplin**

Practical methods. See 370.1 for theories of education. The following divisions concern instruction of all grades

- .1 **Teachers Teaching personnel Professors, masters, instructors**
 See also 370.7 Training of teachers
- .101 **Duties and responsibilities Mission**
- .102 **Personal influence**
- .103 **Relations to parents**
 Mutual duties of parents and teachers
- .104 **Relations to community Public status**
- .105 **Social status**
- .11 **Qualifications Personality**
 See also 371.18
- .12 **Need of training; kind and amount**
 Discussion of special preparation of teachers and professors for their vocation. For teachers training schools and classes, see 370.7
- .13 **Examination Certificates Certified teachers Licenses**
- .14 **Appointment Organization of teaching force**
- .142 **Appointment Contract Discharge Tenure**
- .143 **Appointing body**
 Board, committee, principal
- .145 **Agencies**
 Bureaus and associations for supplying teachers
- .15 **Professional status**
 Permanent profession vs steppingstone theory
- .16 **Salary and promotion Compensation Amount of service**
 For pensions and insurance see 371.17
- .161 **Salary**
- .162 **Fees**
- .163 **Allowance for expenses**
- .164 **Residence Living expenses**
- .165 **Promotion Advance in rank**
 For salary promotion see 371.161
- .166 **Hours Daily or weekly service**
- .167 **Vacation Yearly service**
- .168 **Sabbatic year**

- 371.17 Pensions and insurance for teachers
Carnegie pension fund
- .18 Women as teachers
Feminization of teaching force
- .19 Other topics
- .2 School organization School records
Diary. 'Logbook.' For government of students, disciplin, see 371.5. For school supervision see 379.15
- .21 Admission Enrolment Matriculation
For college entrance requirements see 371.214. Standards of individual schools are clast with the school
- .211
- .212 Grammar or intermediate school admission standards
Including standards of German bürgerschulen
- .213 High school standards
Including standards of German gymnasia, French collèges and lycées
- .214 College standards
Undergraduate and nonprofessional graduate courses in (American) colleges and universities
- .215 Professional and technical school standards
- .22 Tuition fees Free tuition Scholarships
See also 371.162 Professors fees; 379.13 Tuition fees of nonresident pupils in public schools; 378.34 Scholarships
- .23 Terms Vacations Holidays Breaking up
See also Hygiene of vacations and holidays 613.76, 613.77; Closing for diseases, 371.712
- .234 Terms in 2 or more places
For floating schools see 371.392
- .24 Hours Recess
For exercise see 371.73 Care of body
- .25 Classes Grades
For grading of schools, see 379.17. See also 371.394 Individual instruction
- .253 Length of school courses; e. g. 6 year course
See also 378.241 Length of college course
- .26 Marking system
- .27 Examinations: oral, written Cramming
See also 428.9 Language
For competitiv examinations see 371.53
- .28 Promotions Degradating
- .29 Other topics
- .291 Graduation Diplomas
May be subdivided like 371.21 See also 378.2 College degrees

SOCIOLOGY

371.3

Methods of instruction and study

Under the heads below class discussion of pedagogic value of these methods: For methods of teaching specific subjects, see those subjects; for their educational value see 375 Curriculum; e. g. teaching of mathematics 510.7, place of mathematics in curriculum 375.51

- .31 Rote or concert teaching
- .32 Text books Recitations *see also 379.156*
 Use of textbooks. Textbooks themselves are class with the subjects treated
- .33 Lectures Oral and visual instruction
- .335 Visual instruction Lantern slides
- .34 Developing or inductive method
- .35 Art of questioning Catechetical method
- .36 Topical method
- .363 Correlation
- .365 Special days
 Historical days: Discovery day, Flag day, Memorial day, Constitution day, Independence day. Birthdays: authors and other noted persons; Washington's birthday. Nature: Arbor day, Bird day. Other: Thanksgiving, Christmas, Easter, etc.
- .37 Seminary method
- .38 Laboratory method
- .39 Other
- .392 Floating schools or colleges
 Combining travel and shipboard instruction
- .393 Trips, excursions, visits
- .394 Individual instruction Batavia system
 By regular teacher or tutor, at home or at school. See also 373.1
 Private instruction
- .395 Small classes
 See also 371.47 Quincy system
- .4 Systems of education
 For Fröbel's system see 372.2 Kindergarten
- .41 Bell and Lancaster, or monitorial Mutual system
- .42 Fellenberg or manual training; vocational schools, industrial education *corporation schools*
 For equipment and cost of manual training schools or departments see 371.623 Machine shops, 371.676 Apparatus, etc. For subjects of study see 375.01-9 For individual schools see 607 or 378.99
- .421 Educational value
- .422 In elementary schools
- .423 In secondary schools
- .424 In special schools
- .429 History and development

- 371.43 Military organization Military instruction
 .44 Pestalozzian
 Class here all Pestalozzi's educational writings
 .45 Jacotot
 .46
 .47 Quincy system
 .5 Government Disciplin Authority
 .51 Rules
 .52 Attendance Truancy Tardiness Absences
 See also 379.23 Compulsory education
 .53 Rewards Prizes Favors Approbation
 .535 Interschool literary contests
 Competitiv examinations. For interschool and intercollegiate de-
 bates see 374.245 For interschool athletics see 371.75
 .54 Punishment Disciplinary penalties
 Limits of school jurisdiction. Disciplin of consequences
 .55 Corporal punishment
 .56 Other punishments
 Confinement; tasks; expulsion; suspension; discharge
 .57 Personnel responsible for disciplin Monitors
 .58 Moral government Alcott system
 .59 Student self government College systems
 .595 School city Ray system
 .6 School premises and equipment
 .61 Grounds Site
 School playgrounds
 .62 Bildings
 Requirements peculiar to schools. See also 727 Architecture of educa-
 tional institutions. The following subdivisions apply to both special
 rooms and separate bildings
 .621 Study, lecture and assembly rooms
 .622 Library and museums
 Art, science, etc. See also 022 Library bildings; 371.64 Function
 of school libraries; 021.3 Relation of libraries and schools; 027.7-.8
 Reports of college and school libraries
 .623 Laboratories Observatory Machine shop
 See also 542.1 Chemic laboratories; 522.1 Observatories
 371.66 Scientific apparatus and supplies
 .624 Gymnasium
 See also 725.85
 .625 Other special rooms or bildings
 Dormitories, clubs, infirmaries, Y.M.C.A. and Y.W.C.A.
 .626 Sanitation Lavatories
 .627 Lighting
 .628 Heating and ventilation
 .629 Accessories
 Elevators, lifts, telefones, etc.

- 371.63 Furnishing and decoration
- .631 Furniture
Blackboards, desks, chairs, benches. For globes and maps see 371.66
- .632 Musical instruments
- .633 Floors: bare, covered
See also 721.6 Architectural construction
022.96 Library buildings
645 House decoration
- .634 Walls: tints, covering
- .635 Decoration
See also 729 Architectural decoration
- .636 Pictures, frescoes Glass
- .637 Sculpture
- .638 Plants
- .639 Other decoration
- .64 Libraries
Character and functions. For relation to public library see 021.3; for relation to other school rooms and buildings see 371.622. See also 027.8 School libraries; 027.7 College libraries
- .641 Relations of library to faculty and students
- .642 School traveling libraries
- .643 School reading lists
See also 028.5 Reading of young
- .644
- .645 Elementary school libraries
- .646 Secondary school libraries
- .647 College and university libraries
Departmental and seminar libraries
- .648 Professional and technical school libraries
In 371.645-8 may be class matter pertaining to desirability and scope of such libraries, tho it is better in 027.7-8 with reports and other matter pertaining to their management
- .65 Museums: character and functions
Divided if wisht like 010-999; e.g. 371.655 Science museums; 371.657 Art museums. Limited to character and functions of museums attacht to teaching institutions: see also 708 Art museums, and form division 074 under special subjects
- .66 Scientific apparatus, laboratory equipment and supplies
Divided like 500; e.g. 371.662 Astronomic observatory
- .67 Other apparatus, equipment and supplies
Divided if wisht like 010-999; e. g. 371.6791 Globes, maps, etc.
- .7 School hygiene
- .71 Helth of students Overstudy Fatigue
- .711 Sanitary conditions and inspection
Board of helth. For sanitary engineer's side see 371.626
- .712 Medical inspection
For personal conditions affecting helth and intellectual progress; e.g. clenliness, contagious diseases, nervous disorders, defectiv eyes, ears or teeth. Closing schools on account of epidemic or contagious diseases

- 371.713 **Posture**
See also 371.631 Furniture (ill designd desks and seats)
- .716 **School meals**
Discussion. Administrativ problems: space, cost, whether wholly or partly free, etc. For management of lunch room, suitable food, etc. see 642.58
- .718 **Open air schools**
- .72 **Care of eyes** **Effect of study**
- .73 **Care of body** **Gymnastics** **Calisthenics**
For systems of gymnastics or physical training, and books of exercises see 613.71
- .731 **Educational influence of physical training**
- .732 **Gymnastics** **Calisthenics**
- 2 In elementary schools
- 3 In secondary schools
- 4 In colleges
- 5 In special schools
- 6 In girls' schools
- .733 **Military drill**
For military organization of school see 371.43
- .734 **Fencing**
- .735 **Swimming** **Bathing**
- .736 **Riding**
- .737 **Walking** **School promenades**
- .74 **Recreations** **Games, etc.** **Athletics** **Di-**
versions
See also 371.61 School playgrounds; 613.74 Hygiene of play; 796 Outdoor sports
- .75 **Championship games** **Boat races** **Inter-**
school athletics
For other relations see Games in Relativ index following Tables
- .79 **Other special topics**
- .8 **Student life and customs**
Various aspects of student life and student activities outside regular courses of study
See also 784.6 College songs; 378.29 College costumes
- .805 **Student periodicals**
Discussion here. Periodicals themselvs preferably with their schools
- .81 **Student honor**
Cribbing Cheating Keys Ponies Copying
- .82 **Fagging and hazing** **Bullying** **German**
student duels
- .83 **Student organizations** **German corps**
- .836 **Ancient student societies**
- .84 **Literary societies**
- .85 **Secret societies**
Class all college chapters here, thus bringing the fraternity together, with reference from the college. See also 366 Secret societies
- .86 **Society premises** **Society houses** **Halls**
Temples, etc

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- 371.87 Student houses Lodgings Dormitories
 .88 Commons Student restaurants Eating clubs
 .89 Celebrations Customs Triumphs, burnings, etc.
 Anniversaries Ceremonious receptions Student banquets
 .895 School plays
 Divided by language like 400; e.g. 2 English, 3 German
 .896 Class days
 Of special institution, with institution *See also 150.27*
 .9 Education of special classes
 General questions; kind and methods of education for these classes
 For institutions see 362, 364. For study of abnormal children see 136.76
 .91 Physically defectiv
 See also 362.4 Asylums for blind and def
 .911 Blind
 See also 655.38 Printing for the blind
 .912 Def
 Finger alfabet See also 378 for degreeconferring colleges
 .913 Blind-def
 .916 Crippled
 .92 Mentally defectiv
 Divided like 132. See also 362.3 Idiot asylums, 920.8 Lives of idiots, cranks, etc.
 .93 Morally defectiv Delinquents
 See also 364 Reformatories. Criminal classes
 .94 Other abnormal classes
 See also 136.764-9 in Childstudy
 .945 Exceptionals Precocity
 .947 Dependents
 See also 362 Hospitals, asylums and allied societies
 .95
 .96 Special ranks
 See also 375.002 Courses for different social classes
 .961 Princes
 .962 Nobles
 .97 Special types
 See also 136.77 Boys, the 'gang'
 .974 Freedmen Negroes
 See also 378.75-.76 for degreeconferring colleges
 .975 Indians
 .976 Orientals
 .98 Special nationalities
 Special schools for foreners; e. g. Germans, Hungarians, Russians, Japanese in United States
 .99 Coeducation of races

372 Elementary education

Primary schools. Dame schools. Infant schools (under 7 years)
 See also Day nurseries 362.7; Minding schools 362.5 or 362.7; Crèches 362.7
Pedagogy and didactics of primary schools

.01

.1

May be used like 136.7 by those who insist on having childstudy with education

.2

Kindergarten

See also 371.44 Pestalozzian, for theory and early history. Put Fröbel's work and development of his system here

.201

Theory Principles

.202

.203

.204

Essays

.205

Periodicals

.206

Societies

.207

Training of kindergartners

.208

.209

History

Divided if wisht like 940-999

.21

Methods

.211

Gifts and occupations

.212

Gifts

.213

Occupations

.214

Stories

.215

Songs and games

.22

Influence of kindergarten

.23

Relation to other schools

.3

Observing powers Object teaching Science

.35

Nature study

Divided like 500-599; e.g. Birds 372.35982

.36

Gardening

.4

Reading Alfabet Fonics and word methods

Spelling

See also 428.6 Elementary readers

.45

Simultaneous teaching of reading, writing and spelling

.5

Elementary writing and manual work

See also 741 Freehand drawing

.51

Writing

First efforts, imitating printed roman letters

.52

Drawing Design

See also 741 Drawing

.53

Clay modeling

.54

Sewing, etc.

.55

Elementary basketry, weaving and braiding

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372.6 **Elementary grammar Language lessons**

See also 400 Philology, subdivision 3 under each language

.61 **Mother tung**

.65 **Second language**

.7 **Elementary arithmetic**

Including mental arithmetic. See also 511. For Abacus see 511.2

.8 **Other studies**

Divided if wisht like 010-999; e.g. 372.82 Religion

*History
civil govt.*

.89 **Elementary geografy**

See also 910.7. Elementary textbooks may be put with their subjects, but a primer of geografy is more usefule to a student of elementary schools and methods than to one interested in Geografy, Description, and Travel. Text books, except primary, go with their subjects

.9 **Special countries and schools: history, reports, etc.**

Divided like 940-999; e.g. 372.942 English elementary schools. Put here elementary schools whether public, endowd or private

373 **Secondary Academic Preparatory**

Class here discussions of general theories, methods, etc. pertaining specifically to secondary education, regardless of source of support. Class here also all private or endowd secondary schools for boys or both sexes; but class all public (taxsupported) schools in 379.4-9, all primary schools (regardless of support) in 372.9, all schools and colleges solely for women in 376, and all colleges for men or coeducation in 378. Class methods and questions peculiar to monastic, diocesan and parochial schools in 377, but class the schools themselves in 372, 373, 378, etc. according to their grades

For specific topics see 371

.1 **Private instruction: tutor, governess, coach**

.11 **Relativ advantages of instruction at home and in school**

See also 371.394 Individual instruction

.2 **Day schools Boarding schools**

.4-9 **Special countries and schools: history, reports, etc.**

Divide like 940-999; e.g. 373.42 Higher English schools, Eton, Harrow, etc.

374 Home education Self education and culture

Cultural, personal aspect of education

Subdivided by 0 with form numbers if wisht; e.g. 374.05 magazines pertaining to this work, 374.06 Conferences, conventions, institutes, general meetings.

The term Home education covers the broad field of adult self education thru private reading, study clubs and reading circles, summer, vacation, evening and correspondence schools, lecture courses and other forms of extension teaching and other agencies for extending more widely opportunities and facilities for education outside the usual teaching institutions.

For relations of this work to libraries, the natural centers for such activities, see 021.2 See also 378.13 University extension

With or without personal guidance

.1 Solitary study Private reading Conversation

Advantages to be derived from reading. Study alone with or without aid of reading lists, syllabuses, etc.

Reading lists themselves, syllabuses and other aids to study belong with other bibliographies (016) or with compends under their subjects. They may however, if preferd, be kept together under 374.19, divided like the classification; e.g. syllabus on English history 374.19942; on library economy 374.1902

See 028, for preparation of guides, policy, methods, etc.

Vocational guidance Choice of vocation is clast here because usually discust with self education and closely related to it and preparation for life, and is also often determind thru personal advice or conversation

.2 Associated study Clubs

.21 Study clubs

Class here 'travel clubs' which study about places without traveling to see them. See also 374.25

.22 Reading circles Book and periodical clubs

.23 Lyceums Literary clubs

.24 Debating societies Oratorical clubs

.245 Interschool and intercollegiate debates

For interschool literary contests see 371.535

.25 Traveling clubs Educational value of travel

Clubs which travel for education. See also 371.392, 371.393, 374.21

.28 Community centers

Whole community as a club of varied interests. Put here discussion of use of school bildings for various community purposes

.3

With personal guidance

Either alone or in groups, clubs or classes

.4 Correspondence teaching Manuscript aids

Including methods of correspondence teaching

.43 Societies for encouraging home study

.44-.49 Correspondence schools

General schools divided like 940-999. Special schools are better clast with their subject, with only a reference here: e.g. correspondence schools of agriculture 630.714

.5 Lectures

Single lectures, or series of lectures on different subjects; courses on the same subject unsupported by any other of the 7 factors of a complete extension course: i.e.

1 Lectures	3 Class	5 Guided reading	7 Examination
2 Syllabus	4 Papers	6 Club	

- 374.6 Extension courses Lecture study**
 .62 **Lecture study**
 3 or more lectures on the same subject, with 2 or more of the 7 factors
 .64 **Extension courses**
 5 or more lectures on the same subject with 4 or more of the 7 factors
 .8 **Continuation schools**
 Summer, winter, vacation, night (adult) etc. German auxiliary school
 Divided like 940-999 For evening or night schools see also 379.19
 .9 **Central organizations, state departments, institutes**
 N.Y. state home education dept, Brooklyn institute, Cooper institute
 Chautauqua, etc.

- 375 Curriculum**
 .001 Order of studies
 .002 Single course
 .003 Parallel courses
 .004 Optional courses Elective system
 .005 Balanced courses Group system
 Special topics
 .006 Overcrowding curriculum
 .007 Courses for different classes of society
 1 For bredwinning vs culture
 2 Failure of course to develop efficiency
 .008 Courses for schools of special kinds
 Courses in schools of Roman catholic order of St Ann; outline of study
 for common schools; courses in French lycées, etc.
 See also special schools under their respectiv subjects
 .009 **Courses for institutions in special countries**
 Divided like 900. See also 379.4-9

- .01-.9 Subjects of study**
 Divided like the classification 010-999; e.g. 375.5 Place of science in the curriculum, 375.84 French literature in the curriculum, 375.88 Classics in the curriculum
 Methods of teaching individual subjects, also textbooks, may be kept with educational literature by adding letters to 375 as follows: A general, B educational value of specific subjects, C place in curriculum, D methods of teaching specific subjects, E textbooks;
 e.g. 375.32 B Educational value of political science
 375.32 C Place of political science in the curriculum

- 376 Education of women**
 See also 396.4
 .1 **Physical capacity of women**
 .2 **Mental capacity of women**
 See also 136.1 Mental characteristics as influenced by sex
 .3 **Home or domestic instruction**
 By tutor or governess. See also 374
 .4 **Fashionable education 'Finishing' schools**
 Discussion. For prospectuses, catalogs, etc, see 376.9
 .5 **Convent education**
 Discussion. For prospectuses, catalogs, etc, see 376.9

- 376.6 **Higher education of women**
 Secondary and college
- .63 **Secondary: preparatory schools for girls**
 All between primary and college. Discussion. For girls highschools see 379.4-.9; for private preparatory schools see 376.9
- .64 **Influence of college education on women**
- .66 **Associations of college women**
 Association of collegiate alumnae. Alumnae of a single college with that college
- .7 **Coeducation Segregation Separation**
 Discussion of collegiate education of women in separate institutions or those for both sexes, whether in the same or separate classes. See 378 for coeducational institutions, 376.8 for separately organized colleges, either affiliated like Barnard and Radcliffe or independent like Vassar, Smith, etc. Class here by attraction general discussion of coeducation of sexes in college and secondary school
- .8 **Colleges for women**
 Degreeconferring colleges go here. Arrange material of each college by "Table for school and college publications" following 378.99. All other schools for women go in 376.9
- .9 **Special countries and schools: history, reports, etc.**
 Subdivided like 940-999; e.g. 376.943 Education of women in Germany
- 377 **Religious, ethical and secular education**
 Relations of religious to secular education. For inculcation as well as actual teaching of definite ethical or religious doctrines see 375; e. g. instruction in duties of citizenship, patriotism 375.172, course in Christian evidences 375.239. Class catalogs, history, etc. of a denominational school regardless of religious affiliation, but class here books dealing in general with schools of a certain denomination or order; e.g. educational system of the Jesuits 377.35
- .1 **Religious instruction Bible in public schools**
 Including sectarian instruction or influence in public schools. Public school teachers in religious garb. Conscience clause of English elementary school code
- .2 **Ethical education**
 Ethical training, without religious teaching, as advocated by ethical societies. See also 170.7 Study of ethics; 375.17 Place of ethics in curriculum
- .3 **Monastic or abbey schools**
 Ecoles congréganistes. Divide like 271. See also 271 Monastic orders; 376.5 Convent education of girls
- .4 **Diocesan schools Cathedral schools**
 Domschulen, stiftschulen
- .5 **Parochial schools**
 See also 257 Parochial schools
- .6 **Missionary schools**
 Establishment and conduct of schools as part of mission work. See also 266 Missions
- .7 **Charity schools**
 Mainly for elementary education. See also 361 Charitable institutions
- .8 **Church and education**
 Subdivided like 280; e.g. 377.82 Relation of Roman catholic church to education. Discussion of denominational schools or educational associations e.g. 377.82 Association of Catholic colleges of United States. See also 261.5 Church and intellectual development
- .9 **Nonchristian religions and education**
 Subdivided like 290; e.g. 377.97 Relation of Mohammedanism to education

378 Colleges and universities

With power to confer degrees. For men only and for both sexes. For women's colleges see 376.8

- .01 **Definition of college and university** **Aim**
- Advantages and influence of college training; e.g. on business capacity
- .014 **College terminology, 'slang'**
- Including also student slang. See also 427, 437, etc.
- .05 **Academic periodicals**
- Periodicals devoted to college and university interests. Those issued by colleges, schools, etc. are scattered either by subject or under college numbers
- .06 **General college associations**
- Association of New England colleges See also 370.6
- .068 **Associated alumni** **University clubs**
- For alumni associations of any one college, see T under college number
- .069 **Duties of college men as a body**
- .1 **Organization** **Government** **Location** **Scope, field**
- Classes, colleges, graduate departments, etc.
- .11 **Administrative officers**
- .113 **Disciplinary officers, judicial corps, university court**
- President, deans, etc.
- .12 **Teaching staff** **Faculty**
- Exchange of professors. For qualifications see 371.11
- .121 **Freedom of teaching**
- See also political science, 323.444
- .13 **University extension**
- Conducted by universities. See also 374
- .14 **College year** **Summer or vacation instruction**
- All the year session**
- .15 **Location and size** **Large vs small**
- .153 **City vs country colleges**
- .16
- .17
- .2 **Academic degrees and costume** **College colors**
- See also 614.21 **Medical degrees**
- Degrees**
- .21 **Degree conferring body and powers**
- College, university or state. See also 614.21 **State regulation of medical education**
- .22 **Graded degrees**
- Pass, honor, cum laude, magna cum laude, etc.
- .23 **Degrees in course**
- Advanced degrees conferred at specified periods on graduates in good standing, without evidence of advanced attainments

- 378.24 Degrees for completion of courses
 With or without examination
- .241 Time and residence required Length of college course
- .242 Subjects allowable for liberal degree
 Whether technical courses should be credited toward liberal degrees
- .243 Differentiation of degrees: B.A. B.S. B.L. etc.
- .244 Degrees on examination
 With or without residence
- .25 Honorary degrees
- .26 Degrees by purchase or forgery
- Insignia**
- .27 Seal Coat of arms Motto
- .28 Colors: institution and class College flags
- .29 Academic gowns and hoods
- .3 Endowment of research Fellowships Scholarships Student aid
- .3¹
- .32 Endowment of research
 Carnegie institution. Incentivs to research. Prizes. Opportunities for research. Nobel prizes. Competitions
- .33 Fellowships
- .34 Scholarships
 Rhodes scholarships Traveling scholarships
- .35
- .36 Student income and expenses
- .362 Loan funds Student aid societies
- .364 College employment bureaus Faculty committees
 Other organizations for securing work for students
- .365 Student earnings
 Working way thru college Ways of earning
- .368 Student expenses: extravagance, economy
- 4-.98 Special countries and colleges: history, reports, etc.

For women's colleges, see 376.8

Subdivide like 940-999; e.g. 378.42 English universities; 378.741 Maine colleges

The various colleges of any section may be given each a number or be arranged alphabetically. Under each college arrange publications by the following table, placing these letters *after* the letter (or letter and figures) used to designate the college; e.g. a history of Harvard college would be markt 378.744 H E, and a second history would be numberd 378.744 H E1. The practical convenience of this plan outweighs the objection that it introduces classification into the book numbers

If preferd, colleges and universities may be arranged alphabetically under continent number, insted of being clast first by country or state; e.g. European universities under 378.4 in alfabetic order regardless of country. United States colleges and universities all in one alfabet under 378.73

SOCIOLOGY

378.09 Professional, technical and other special schools
Professional education

Best kept with subject, but may be compactly groupd here. Divided like the classification: e.g. 378.992 Theologic schools, 378.9934 Law schools, 378.9961 Medical schools

TABLE FOR SCHOOL AND COLLEGE PUBLICATIONS

- A Charter and statutes
- B Trustees Regents Resolutions, reports, etc
- C Administration President, chancellor Reports, etc
- D Finances Treasurer's reports
- E History Foundation, growth, etc
- F Biografy Necrology
- G General catalogs Triennials, etc
- H Annual catalogs Attendance, registers, etc
- I Handbooks Circulars of information
- J Bulletins Official periodicals
- K Commencements, inaugurals, etc Baccalaureate and other addresses
- L Programs Tickets Memorabilia
- M Faculty (as a body) Publications Regulations Certificates for admission
- N Lectures Class manuals Examination questions
- O Student theses Orations, essays, etc
- P Student catalogs Society annuals, etc
- Q Student periodicals
- R Student societies, including periodicals
- S Student miscellany Songs Class day, etc
- T Alumni Societies, committees, etc
- U Classes Histories, records, etc
- V Pictures Class albums
- W Bildings and grounds Descriptions, maps, etc
- Z Schools: divinity, law, medical, etc

379 Public schools Relation of state to education

.I **Public school system**

.II School funds

.I2 National and state aid to education

.I21 Public aid to private and sectarian schools

.I23 Land grants

See also 336.14 Public finance

.I24 Subsidies

.I3 Local support

Taxation Bonds Endowment Nonresident tuition See also 336.28 Taxation

- 379.14 School laws and regulations School age
Divided like 940-999
- .15 School supervision and control: national, state
 and local Centralization
- .151 National
- .152 State: department, inspectors, etc.
- .153 Local: superintendent, school committee, board
Supplies, free textbooks, etc. For school meals see 371.716
- .154 Individual: parents and others
- .156 State textbooks
- .16 Public colleges and universities: national, state
 and local
Only discussion here; for individual colleges see 378.4-9
- .17 Secondary schools
Discussion. For individual schools see 379.4-9
- .171 Highschools Academies
6 year highschools
- .172 Grammar schools
- .173 Rural schools
- .175 Central plan Conveying pupils
- .18 Primary schools Kindergartens
Questions of public maintenance. For individual schools see 372.9
- .19 Evening schools
See also 374.8
- .2 Illiteracy Instruction of illiterates
- .21 Illiteracy and crime Education and crime
 Criminal illiterates
- .22 Illiteracy and pauperism Indigent illiterates
See also 339 Pauperism; 362.5 Pauper asylums
- .23 Compulsory education
See also 371.52 Truancy
- .24
- .3 Public vs private and endowd schools
- .4-9 Special countries, sections, cities, etc.
Subdivided like 940-999: e.g. 379.73 Reports of U.S. commissione
 of education; 379.744 Education in Massachusetts; 379.7471 in New
 York city. Keep state departments separate from city and other local
 systems by numbering state reports. A1-A8, using A9 followd by
 author's initial (lower case) for history of schools of any state; e.g.
 Fitch's *New York public schools* 379.747 A9f

380 Commerce Communication

Public utilities. The technical side of these questions goes mostly in 650 Useful arts.
Here belong discussions of social and political relations.]

.16

Government control of public utilities

- 381 Domestic trade — *marketing - markets*
- 382 Foren trade Consular reports — *divide by country*
Trade between mother country and colony
51 China
.71 Canada
.8 S.A.
- 383 Postal servis
See also 353.4 U. S. administration
- 384 Telegraf Cable Telephone *stocks + Directors reports*
See also 621.38 and 654
- 385 Railroad and express
Government ownership or control. Interstate commerce commission. See also 656
Railroading
- 386 Canal and highway transportation
See also useful arts, 656 Transportation
- 387 River and ocean transportation
History of shipping. Ship subsidies
~~See also useful arts, 655 Transportation~~ — *Don't use 656*
- 388 Local transit: city and interurban
See also engineering 625
- 389 Weights and mesures Metrology
See also 658 Business manuals

390 Customs Costumes Popular life

These heds are for discussions by topic. Customs, etc. of any special country go in 913-919. Books on a special topic in a special country go here, as the grouping by topics is the more important; e. g. Marriage in Japan is 392.5, but Japanese customs, 915.2. For customs of primitiv man, see 571

391 Costume and care of person

See also 646 Clothing; 613.4 Hygiene

- .1 Costumes of men
- .2 " " women
- .3 " " children
- .4 Extremities: hats, gloves, sandals, shoes, stockings, etc.
- .5 Hairdressing Barbers
- See also 646.7 Toilet
- .6 Care of person Bathing Toilet
- .7 Ornaments and jewelry
- .8

392 Birth, home, and sex customs

- .1 Birth customs: christening, circumcision
- .2 Sacrifice and exposure
- See also ethics, 173.4 Infanticide
- .3 Family and home relations
- .4 Betrothal
- .5 Marriage
- .6 Sex relations Concubinage

393 Treatment of the dead

See also 614.6 Public helth

- .1 Earth burial
- See also 719 Cemeteries
- .2 Cremation
- .3 Embalming, mummies
- .4 Exposure
- .9 Special funeral customs: wake, suttee

394 Public and social customs

- .1 Eating, banquets
- .2 Shows and diversions
- .3 Games Dances, etc.
- .4 Ceremonies
- .5 Processions
- .6 Fairs
- .7 Chivalry Tournaments
- .8 Dueling Suicide

For other relations see Dueling in Relativ index following Tables

395 **Etiquet**

Codes of social procedure and behavior. For social ethics see 177

396 **Woman's position and treatment**

For costumes, see 391.2; biography, 920.7

If a special library about women is wisht, 396 is the best place for it. Suffrage, education, and employment can then be put here, with references from 324.3, 376, 331.4, etc. but it would be unwise to bring everything about women here, e. g. to remove 618, Diseases of women, from the rest of medicin. Books on woman in general go in 396

.1 **Emancipation**

.2 **Legal status, property, rights, etc.**

.3 **Political status**

See 324.3, Suffrage; 329.83, Woman suffrage party

.4 **Education**

See also 376, Education of women

.5 **Employment**

See 331.4, Labor of women; 371.18, Teachers

Divided like the general classification; e. g. woman as scientist, 396.55; woman's exchange, 396.56; woman as painter, 396.575; woman as author, 396.58, etc.

.6 **Woman in home**

.7 **Delineation of woman in art**

.8 **Delineation of woman in literature**

.9 **Woman in history, politics, war** **Amazons**

397 **Gypsies Nomads Outcast races**

People without nationalities who do not coalesce with the ruling people among whom they live. This includes Gipsy language, which till recently had no place in the linguistic groups of 400, as the Gipsy people have no place in the geografic divisions of history

398 **Folklore Proverbs, etc.**

See also 291-3 Mythology

This section is for material needed in studying Folklore. Mere stories for children, unless having a value to students of folklore, go in 823, or in J, if there is a Juvenil collection

.1 **Primitiv traditions**

.2 **Legends, tales, traditions**

.3 **Folklore, traditional beliefs and customs, popular superstitions**

.4 **Fairies, elvs, ogers, monsters, etc.**

Bogies, gnomes, dragons, vampires, werewolvs

.5 **Chapbooks**

.6 **Riddles**

.7 **Dream books**

.8 **Song books**

Including only popular collections, hardly ranking with Poetry or Music, but useful in the study of Folklore, etc.

.9 **Proverbs**

399 **Customs of war**

Weapons War dances Treatment of captivs Scalping Mutilation Burning Cannibalism See also 623.4 Firearms

Philology

400 Philology in general

In philology the general works put under 400-419 deal almost entirely with the Indo-European languages. They are put here because they cover most of the divisions of this class, and in practis are most convenient here. Under 439, 479 and 489 are placed books limited to the Teutonic, Romance, or Hellenic groups, and under 491 are placed only such general works as are specifically limited to the Indo-European group

- 401 Philology Origin of language
- 402 Compends, outlines
- 403 Dictionaries, cyclopedias
- 404 Essays, lectures, addresses
- 405 Periodicals
- 406 Societies, transactions, etc.
- 407 Education, teaching languages
- 408 Polygraphy Collections
 - .9 Universal language
 - .91 Volapük
- 409 History of language,

410 Comparativ

410-419 includes *comparativ* works in *general* and also those on the Indo-European group in general, but general *and comparativ* works on Teutonic group are 439; on Romance group 479; on Hellenic group 489. Everything about an individual language is put with that language. 410-418 may be subdivided like 420-428

- 411 Orthography Orthoepy Alfabet
- 412 Etymology, derivation
- 413 Dictionaries, lexicography
- 414 Phonology Visible speech
 - See also 612.78 Physiology of speech
- 415 Grammar, morphology, syntax
- 416 Prosody
- 417 Inscriptions Paleography
 - See 421.7, 471 7, 481.7, etc. Rare early mss are put in 091
- 418 Texts
- 419 Hieroglyphics
 - See also 493.1
- .1 Sign language
 - For def mute alfabet, see 371.912

420 **English philology**

.1 Philosophy .2 Compendis .3 Essays .4 Periodicals .5 Societies .6 Study and teaching .7 Collectiv works .8 History of the language

421 **Orthografy**

See also this hed treated in general grammars placed under 425

.1 **Alfabet**

For def mute alfabet., see 371.912

.2 **Vowels Difthongs Aspirates**.3 **Consonants**.4 **Phonetic spelling Spelling reform**.5 **Orthoepy**.6 **Accent**.7 **Paleografy Incriptions**.8 **Abbreviations**

For stenografic and other uncommon contractions and abbreviations, see 653 Shorthand

.9 **Punctuation**422 **Etymology Derivation**

422 is limited to derivation. For inflection, also called etymology, see 425 I

.1 **Origin and laws of language**.2 **Prefixes Suffixes**.3 **Reduplication**.4 **Foren elements**.5 **Noun forms: case, number, diminutivs**.6 **Adjectival forms Degrees of comparison**.7 **Pronominal forms: personal, possessiv, relativ, etc.**.8 **Verbal forms: moods, tense, voice, etc.**.9 **Particles: adverbs, prepositions, etc.**423 **Dictionaries Idioms**

.1 Idioms .2 English .3 German, etc. Put a dictionary of two languages with the less known language. Under 423 put only English-English dictionaries. Put an English-French dictionary with French, 443.2; a French-Latin dictionary with Latin, 473.4. If in several languages, put with 413, or with least known. Put French-French dictionaries 443, not 443.1, so that the standard home dictionaries shall come first in each language. This plan brings together under each of the less known, all the dictionaries for translating either into or from that language. Some prefer to put each dictionary under the first language; i. e. that by which it is alfabeted. This gives under *each* language, regardless of its familiarity, *all* dictionaries for translating *from* it, but none for translating *into* it. These must be sought under the language from which the translation is to be made. For a cosmopolitan library this plan is simplest and best; but in an English library, the first plan, with only English dictionaries in 423, and both *in* and *out* dictionaries together under little known tungs is more convenient. References in either case show what may be found in the other place

424 **Synonyms Homonyms**

- 425 Grammar
 425 includes general works, covering also orthography and prosody
- .1 **Morfology** **Inflection**
 Divided like 425.2 Syntax; e. g. .5 Nouns, etc. See 422
 - .2 **Syntax**
 - .3 **Arrangement of words and clauses**
 - .4 **Particular sentences: conditional, hypothetic, etc.**
 - .5 **Nouns**
 - .6 **Adjectivs** **Articles**
 - .7 **Pronouns**
 - .8 **Verbs**
 - .9 **Particles**
- 426 Prosody
 See also the hed Prosody, in general grammars 425
- .1 **Quantity and accent**
 - .2 **Versification**
 - .3 **Feet**
 - .4 **Figures of prosody**
 - .5 **Meters**
 - .6 **Rimes**
 - .7 **Strophe and antistrophe**
 - .8 **Textbooks for writing verse**
 - .9
- 427 **Dialects** **Early forms of language** **Slang**
 Subdivided by geografic divisions like 942. The Yorkshire dialect is 427.74; Gloucestershire dialect 427.41. The dialects of other languages take the geografic subdivisions of their countries. Dialects not provided for in these heds are placed with the last; e. g. American and Scotch with 427.9. The division by time is made with a 5th figure after o; the earliest form of the language is markt .01; .09 is used for modern slang, e. g. 427.01 Old English
- 428 **School books** **Texts for learning the language**
 Including only books for *learning* the language, with grammatic or philologic notes, etc. For other works see literature of the language, 820
- .1 **Spelling books**
 - .2 **First lessons** **Elementary composition** For Rhetoric see 808.
 Including in other languages books like Fasquelle, Ollendorff, Chardenal, Latin prose, etc. See also 372.6, Elementary grammars
 - .3 **Errors of speech** **Vulgarisms** **Use of words**
 See 427.09 Slang; 424 Synonyms
 - .6 **Elementary readers** See also 372.4 Education
 For primers and primary readers see 372.4. Class here 3d and 4th readers, and put higher readers with literature collections; 803.8 if general, 820.8 if English or English and American, etc.
 - .7 **Selections**
 - .3 **Texts of individual authors**
 With grammatic notes and questions. Preferably clast in 800 with cross references here
 - .9 **Examination papers**
- 429 Anglo-Saxon

430 German

437.01 Old High German; 437.02 Middle High German

439 Minor Teutonic

Including general works on Teutonic group

.1 Low German**.2 Frisian Old Saxon****.3 Dutch Flemish****.4 Plattdeutsch****.5 Scandinavian****.6 Old Norse Icelandic Faroese****.7 Swedish****.8 Danish Norwegian****.9 Gothic****440 French**

447.9 Canadian and creole French, etc.

449 Provençal

Old French, as the earliest form of the language, is 447.01

450 Italian**459 Wallachian****.9 Rumansh****460 Spanish****469 Portuguese****470 Latin****479 Minor Italic Medieval Latin**

Including general works on Romance group

480 Greek

Divide 487, Greek dialects, like 930; e. g. 487.2 Alexandrian Greek; 487.3 New Testament Greek; 487.81 Macedonian; 487.923 Ionic, etc.

489 Minor Hellenic Modern Greek

Including general works on Hellenic group

Works on Latin and Greek together, unless very clearly most useful in Latin, go with Greek, which here as well as elsewhere is made to include general works on the ancient classics

490 **Minor languages**

Each language subdivided if wisht like 420 English

491 **Minor Indo-European**

Besides Teutonic, 420-439; Italic, 440-479; and Hellenic, 480-489

This hed, 491, includes general works on the Indo-European tungs, but general works on the Teutonic languages go in 439, on the Romance group in 479, on the Hellenic group in 489, while most of the material placed under 400-419 is really Indo-European; but see also 410

- .1 Indic**
- .2 Sanskrit**
- .27 Sanskrit dialects Prakrit
- .3 Pali**
- .4 Modern East Indian languages**
- Excluding Dravidian, which is 494
- .41 Sindi
- .42 Panjabi
- .43 Hindustani Hindi
- .44 Bengali
- .45 Uriya Orissa
- .46 Marathi
- .47 Gujerati
- .48 Singhalese
- .49
- .5 Iranian**
- .51 Old Persian
- .52 Zend (Avestan) Old Bactrian
- .53 Pehlevi (Huzwaresh)
- .54 Armenian
- .55 Modern Persian
- .56 Ossetic
- .57 Kurdish
- .58 Afghani
- .59
- .6 Keltic**
- .61 Gadhelic group
- .62 Irish
- .63 Gaelic or Scotch
- .64 Manx
- .65 Cymric group
- .66 Welsh or Cymric
- .67 Cornish
- .68 Armorican or Bas Breton
- .69 Basque**
- .7 Russian**
- .79 Ruthenian

PHILOLOGY

491.8

Other Slavonic

Southeast Slavonic group

.81 Bulgarian (Church Slavonic)

.82 Serbian

.83 Kroatian

.84 Slovenian

West Slavonic group

.85 Polish

.86 Bohemian

.87 Moravian Slovakian

.88 Sorbian

.89 Polabian

.9 Lettic

.91 Old Prussian

.92 Lithuanian

.93 Lettish (Livonian)

492

Semitic

Northern group

.1 Aramaic

.19 Babylon and Nineveh cuneiform

.2 Chaldee

.3 Syriac (Peshito)

Central group

.4 Hebrew

.5 Samaritan

.6 Phenician (Carthaginian)

Southern group

.7 Arabic

.8 Ethiopic (Amharic)

.9 Himyaritic

493

Hamitic

.1 Old Egyptian

See 419 Hieroglyphics

.2 Coptic

494

Scythian Ural-Altaic Turanian

Dravidian Tamil Finnish Turkish Magyar, Hungarian

495

Eastern Asiatic Chinese Japanese

496

African

Excluding 493 Hamitic, 492.8 Ethiopic, etc. included in families above

497

North American

498

South American

499

Malay-Polynesian and other

Natural Science

500 Science in general

501-509 all have *Science in general* as their subject, but it is treated in these various forms. A periodical on *Chemistry* goes with 540.5, not 505, which is only for periodicals on Science in general. 0 in any class number in any part of the classification shows the subject to be general, not specific

- 501 Philosophy, theories, utilities, etc.
- 502 Compendis, outlines Ancient and medieval science
- 503 Dictionaries, cyclopedias
- 504 Essays, lectures, addresses
- 505 Periodicals, scientific magazines
- 506 Societies: transactions, etc.
- 507 Education, methods of teaching and study
Museums
- 508 Polygraphy: collected works, extracts, etc.
 - .1 Extracts .2 .3 General scientific travels .4—.9 Travels and surveys (if general) divided geographically like 940-999
- 509 History of science

510 Mathematics

Works on *Mathematics in general* not limited to any one or two sections, are grouped by form of treatment like Science in general above; i. e. into Mathematical

510.1 Philosophy .2 Collections, compendis .3 Dictionaries .4 Essays, papers tracts, letters .5 Periodicals .6 Societies .7 Education .8 Logarithmic and other tables, instruments .9 History

511 Arithmetic

See 372.7 Teaching elementary arithmetic

- .1 Systems of arithmetic
 - See also 512.81 Theory of numbers
- .2 Notation and numeration Fundamental rules Abacus
- .3 Prime numbers
- .4 Fractions
- .5 Analysis Permutation and combination
- .6 Proportion and progression
- .61 Magic squares
- .7 Involution and evolution
- .8 Mercantil rules Interest Alligation Mensuration
Gaging
 - See also 658 Business manuals
- .9 Problems and tables

512 Algebra

- .1 Systems of algebra
- .2 Numeric equations Imaginary expressions
 - .21 Equations, 1st to 4th degrees
 - .22 Higher numeric equations
 - .23 Indeterminate equations Diophantin analysis
 - .24 Imaginary expressions
- .3 Algebraic equations Maxima and minima
- .4 Series Fractions Binomial theorem Taylor's theorem
- .5 Combinatory analysis
- .6 Proportion and progression
- .7 Involution and evolution
- .8 Higher algebra
 - .81 Theory of numbers See 511.1 Systems of arithmetic
 - .82 Theory of equations Complex variable See also 517.8
 - .83 Determinants
 - .84 Symmetric functions
 - .85 Elimination: eliminants and discriminants
 - .86 Transformations Substitutions
 - .87 Quantics
 - .88 Invariants Covariants Contravariants
 - .89
- .9 Problems and tables

513 Geometry

Plane and solid geometry bound together is put 513. Descriptiv geometry is 515
 See also 744 Mathematic drawing

- .07 *study and teaching*
- .09 *History.*
- .1 Plane geometry
 - .11 Right lines
 - .12 Intersecting lines
 - .13 Parallel lines
 - .14 Triangles
 - .15 Quadrilaterals
 - .16 Other polygons
 - .17 Similarity
 - .18 Areas
 - .19 Maxima and minima
 - .2 Curvs
 - .21 Circles
 - .22 Conic sections
 - .23 Ellipse
 - .24 Hyperbola
 - .25 Parabola
 - .26 Higher plane curvs

- 513.3 **Volumetric or solid geometry**
- .31 Lines and planes
 - .32 Intersecting planes
 - .33 Parallel planes
 - .34 Polyhedrons
 - .35 Pyramids
 - .36 Prisms
 - .37 Regular
 - .4 **With curvd surfaces**
 - .41 Sphere
 - .42 Cone
 - .43 Cylinder
 - .5 **Modern geometry**
 - .51 Points Lines Planes Duality
 - .52 Transversals
 - .53 Cones Conics Involution
 - .54 Radical axes and centers of similitude
 - .55 Poles and polars Reciprocal polars
 - .56 Harmonic and anharmonic properties
 - .57 Correspondence Correlation of figures
 - .58 Quadric surfaces: spheroconics, curvs of double curvature
 - .59 Surfaces of higher order: cubics
 - .6
 - .7
 - .8 Absolute or non-Euclidean geometry - *4th dimension*
 - .9 Problems
- 514 **Trigonometry**
- .1 Trigonometric functions General formulas See 522.7
 - .2 Trigonometric series
 - .3 Exponential formulas
 - .4 Solution of trigonometric equations
 - .5 Plane trigonometry: solution of plane triangles; analytic
 - .6 Spheric trigonometry General formulas
 - .7 Solution of spheric triangles
 - .8 Differences of triangles, plane and spheric
 - .9 Problems

515 Descriptiv geometry and projections

See also 744 Mathematical drawing

- .1 **Orthogonal projection on 2 planes**
- .11 Straight lines Planes
- .12 Single curvd lines
- .13 Double curvd lines
- .14 Single curvd surfaces
- .15 Double curvd surfaces
- .16 Surfaces of revolution
- .17 Warpt surfaces
- .18 Intersections of surfaces
- .2 **Isometric and analogous projections**
- .3 **Oblique projection**
- .4 **Conic projection**
- .5 **Spheric projection** See 526.8 Map projection
- .51 Orthografic
- .52 Globular
- .53 Stereografic
- .54 Polar
- .55 Gnomonic
- .56 Conic
- .57 Cylindric
- .6 **Perspectiv** See also 742 Drawing
- .61 Plane Parallel Oblique Angular
See also Scene painting
- .62 Cylindric
See also Panorama painting
- .63 Shadows; natural and artificial light
- .64 Reflections
- .65 Circles, cylinders and spheres
- .66 Distortions and corrections
- .67 Human figure
- .68 New methods Special devices
- .7 **Shades and shadows**
- .8 **Stereotomy**
- .81 Stonecutting See also 693.12 Masonry; 730 Sculpture
- .82 Carpentry See also 694 Bilding
- .83 Stairbilding See also 694.8 Bilding; 729.39 Architectural design

516 Analytic geometry

- | | |
|-----|--|
| .1 | Plane loci |
| .11 | Right lines |
| .12 | |
| .13 | |
| .14 | Transformation of coordinates |
| .2 | Curvs |
| .21 | |
| .22 | Conic sections |
| .23 | Ellipse |
| .24 | Hyperbola |
| .25 | Parabola |
| .26 | Higher plane curvs |
| .3 | Loci in space |
| .31 | Right lines |
| .32 | Planes |
| .33 | |
| .34 | Transformation of coordinates |
| .4 | Curvd surfaces |
| .41 | |
| .42 | Conicoids or quadric surfaces |
| .43 | Ellipsoid |
| .44 | Hyperboloid |
| .45 | Paraboloid |
| .46 | Surfaces of higher order |
| .5 | Modern analytic geometry |
| .51 | Systems of coordinates |
| .52 | Abridged notation |
| .53 | Conics |
| .54 | Higher plane curvs |
| .55 | Poles and polars Reciprocal polars |
| .56 | Harmonic and anharmonic properties |
| .57 | Method of projection |
| .58 | Quadric surfaces: spheroconics, curvs of double curvatures |
| .59 | Surfaces of higher order: cubics |
| .6 | |
| .7 | |
| .8 | Quaternions: calculus of direction and position |
| .9 | Problems |

CARTESIAN

517 Calculus

- .1 **Infinitesimal Method of exhaustions**
Differential and Integral calculus, *bound together*, is put here
- .2 **Differential**
 - .21 Series *Fourier*
 - .22 Indeterminate forms
 - .23 Change of the independent variable
 - .24 Theory of plane curvs **Curv tracing**
 - .25
 - .26 Theory of curvd surfaces
 - .27 Maxima and minima
 - .28
 - .29 Problems
- .3 **Integral**
 - .31 Formulas of reduction and integration
 - .32 Definit integrals **Eulerian integrals**
 - .33 Rectification **Quadrature** **Cubature**
 - .34 Multiple integrals
 - .35 Laplace's functions **Bessel's and allied functions**
 - .36 Elliptic and hyperelliptic functions **Abelian functions**
 - .37
 - .38 Differential and partial differential equations
 - .39 Problems and tables
- .4 **Of variations**
- .5 **Of functions** *real variables*
- .6 **Of finite differences**
- .7 **Of operations**
- .8 **Of imaginaries** **Complex variables** See also 512.82
- .9 **Problems**

519 Probabilities

- .1 **General principles** **Direct and inverse probabilities**
- .2 **Mathematical and moral expectation**
- .3 **Testimony: decisions of juries and tribunals**
- .4 **Probability of future events deduced from experience**
- .5 **Life contingencies: annuities, life insurance** See 368.3
- .6 **Errors of observation** **Mean or average values**
- .7
- .8 **Method of least squares**
- .9 **Problems**

520 Astronomy

520.1 Astrology, see 133.5 520.2 Compendis 520.3 Dictionaries 520.4 Essays
 520.5 Periodicals 520.6 Societies 520.7 Study and teaching of astronomy
 520.8 Collections, etc. 520.9 History of astronomy
 See also note under Natural science in general, 500-509

521 Theoretic astronomy

Mathematical investigation of celestial motions, specially of the Solar system.
 Motions of individual bodies are classed under separate heads in 523

.1 Celestial dynamics

- .11 General laws of equilibrium and motion See also 531.2
- .12 Law of universal gravitation and motion relativ to the sun
 See also 531.51
- .13 Problem of 3 bodies
- .14 Figures of heavenly bodies
- .15 Rotation of heavenly bodies

.2 Geocentric and heliocentric place

- .21 Plane of orbit in space
- .22 Position of orbit in its plane
- .23 Position of body in its orbit
- .24 Position of body in space
- .25 Heliocentric longitude and latitude
- .26 Geocentric longitude and latitude
- .27 Variations of right ascension and declination
- .28 Variations of longitude and latitude
- .29

.3 Orbits

- .31 Definitions of orbits
- .32 Determination from 3 observations
- .33 Determination from 4 observations
- .34 Variation of elements of orbit
- .35 Correction of approximate elements of orbit
- .36 Application of method of least squares
- .37 Kepler's problem
- .38 Equation of center and radius vector
- .39

.4 Perturbations

- .41 Mutual action of planets
- .42 Action of satellites
- .43 Nonsphericity of planets
- .44 Resisting medium

.5 Theory of planets

.6 Theory of satellites

.7 Theory of comets

.8 Theory of eclipses

.9 Precession and nutation See also 522.95-.96

522 Practical and spheric

- .1 Observatories**
- .11 General plan, location
- .12 Material and mechanism of dome, drum, etc.
- .13 Transit bildings, wings, etc.
- .14 High altitude observatories
- .15 Portable
- .19 History, reports and serial publications of observatories
- .2 Telescopes** See also 535.83 Optics
- .21 Reflecting
- .22 Refracting
- .23 Eye piece and accessories
- .24 Object glass
- .25 Mounting, tube, etc.
- .26 Equatorial mounting
- .27 Transit mounting
- .28 Observing chairs, etc
- .29 Famous telescopes
- .3 Meridional instruments**
- .31 Finding meridian line
- .32 Mural circles
- .33 Meridian circles
- .34 Transit: placing in position
 - .35 Collimation constant
 - .36 Level constant
 - .37 Azimuth constant
 - .38 Other constants, flexure, index error, etc.
- .4 Extra meridional instruments**
- .41 Sextant and quadránt, reflecting circle, astrolabe
- .42 Altazimuth
- .43 Zenith telescope
- .44 Transit out of meridian
- .45 Heliometer
- .46 Equatorial
- .47 Prime vertical
- .5 Auxiliary instruments**
- .51 Sidereal clock and chronometer
- .52 Electrochronograf
- .53 Micrometers
- .54 Personal equation machine See 522.97
- .55 For illumination
- .56 For solar observation
- .57 Artificial horizons
- .58 Heliostat

522.6 Auxiliary observations

- .61
- .62 **Photometry** See 535.2 Optics
- .63 **Photografy** See 535.85 Optics; 770 Fotografy
- .64
- .65 **Polarization** See 535.5 Optics
- .66
- .67 **Spectroscopy** See also 535.84
 Technic; application to astronomy and use with telescope. For results see
 523.37, 523.57, 523.67, 523.77, 523.87

.68

.69

.7 Spheric astronomy See also 514.6

- .71 **Celestial sphere** Spheric coordinates
- .72 **Rectangular coordinates**
- .73 **Transformation of coordinates**
- .74 **Differential variations of coordinates**
- .75 **Interpolation**
- .76 **Meridian line** Variation of compass
- .77 **Reduction of observations to the meridian**
- .78 **Use of globes**

.79

.9 Corrections

- .91 **Parallax**
- .92 **Refraction** See 535.3 Optics
- .93 **Semidiameter of celes tial bodies**
- .94 **Aberration**
- .95 **Precession** See 521.9
- .96 **Nutation** " "
- .97 **Personal equation** See 522.54
- .98 **Instrumental errors**

.99

523 Descriptiv astronomy**.1 Universe**

- .11 **Structure of universe**
- .12 **Nebular hypothesis**
- .13 **Plurality of worlds**
- .14 **Space and its temperature**
- .15 **Resisting medium**
- .16 **Cosmic dust**
- .17 **Repulsiv force**

- 523.2 **Solar system**
- .21 Distributiv laws of planets
 - .22
 - .23 Conjunctions and oppositions
 - .24 Motion of solar system in space
 - .25 Constitution of planetary system
 - .26 Stability of solar system Ecliptic
 - .27
 - .28 Orrery, planetarium, gyroscope, etc. See 531.34 Rotation
 - .29 Zodiac
- .3 **Moon**
- .31 Constants: size, mass Distance and parallax
 - .32 Heat and light Phases
 - .33 Orbit and motions
 - Sidereal month, tropical, perigee and apogee, sun and earth's attraction, librations. See also 521.6 for Orbit
 - .34 Features of surface: mountains, plains, etc.
 - .35 Atmosphere
 - .36 Physical condition
 - .37 Spectrum
 - .38 Eclipses
 - .39 Charts, photographs, etc.
- .4 **Planets**
- .41 Mercury and intramercorial
 - .42 Venus
 - .43 Mars
 - .44 Asteroids
 - .45 Jupiter
 - .46 Saturn
 - .47 Uranus
 - .48 Neptune and transneptunian
 - .49 Charts, photographs, etc.
- .5 **Meteors and zodiacal light**
- .51 Aerolites
 - .52 Fireballs
 - .53 Meteoric showers, radiant points, etc.
 - .54 Systems of meteors
 - .55
 - .56 Connection of comets and meteors
 - .57 Spectrum
 - .58 Hight of atmosphere from observation
 - .59 Zodiacal light Aurora (borealis and australis)

523.6**Comets**

- .61 Appearance and development
- .62
- .63 Orbits
- .64 Remarkable comets
- .65
- .66 Physical constitution
- .67 Spectrum
- .68
- .69 Charts, photographs, etc.

.7**Sun**

- .71 Constants, dimensions
- .72 Heat and light: theories as to source
- .73 Apparent motion Rotation See 525.38 Tables
- .74 Spots, faculæ, and other features of surface
- .75 Prominences, chromosphere, corona
- .76 Theories of physical constitution
- .77 Spectrum
- .78 Eclipses
- .79 Charts, photographs, etc.

.8**Stars**

- .81 Stellar parallax, distance
- .82 Heat and light Photometric observations Magnitude
 Visibility
- .83 Proper motion, stardrift
- .84 Variable, double, and multiple stars
- .85 Clusters and nebulas
- .86 Physical constitution
- .87 Spectrum
- .88
- .89 Constellations, maps, catalogs, etc.

.9**Transits and occultations**

- .91 Transits of Mercury
- .92 Transits of Venus and solar parallax
- .93 Delisle's method
- .94 Halley's method
- .95 Photographic method
- .96 Transits of Venus to 1874
- .97 Transit of 1882
- .98
- .99 Occultations

524 Maps, observations, and tables

Series of observatory publications may be kept together under 524, or under 522.19 with the history and reports of the observatory. Special maps or observations, e. g. on Sun or Moon, are better placed in subsections *under those heads* in 523, with charts and photographs, e. g. 523.79, thus leaving these bracketed numbers 524 to 524.9 blank. They are printed to provide a place in case it is wisht to keep *all* maps and observations together

- .3 **Of moon** See also 523.39
- .4 **Of planets** See also 523.49
- .5
- .6 **Of comets** See also 523.69
- .7 **Of sun** See also 523.79
- .8 **Star catalogs** See also 523.89]

525 Earth

- .1 **Constants.**
 - .11 Mass Weight
 - .12 Density
 - .13 Dimensions, diameter
 - .14 Figure: geomorfy, equatorial belt
 - .15 Distance from sun
 - .16 Parallax
- .2 **Heat Light**
- .3 **Orbits and motions**
 - .31 Period of revolution
 - .32 Obliquity of ecliptic to equator
 - .33 Eccentricity
 - .34 Perturbations
 - .35 Rotation
 - .36 Foucault's pendulum
 - .37 Deviation of falling bodies and projectiles
 - .38 Tables of the sun Apparent motion See 523.73 Sun
- .4 **Geografic coordinates**
 - .41 Finding latitude See also 527.1
 - .42 By meridian altitudes
 - .43 By Pole star
 - .44 By altitude of 2 or more stars
 - .45 By other methods
 - .46 Finding longitude See also 527.2
 - .47 Terrestrial means: chronometers, telegraf, signals
 - .48 Celestial signals: eclipses, occultations, transits
 - .49 Lunar methods
- .5 **Seasons**
 - .51 Effect of inclination of equator to ecliptic
 - .52 Effect of eccentricity of earth's orbit
 - .53 Secular changes of seasons
 - .54 Seasons on Mars and other planets

- 525.5 **Tides**
 - .61 Mathematical theory
 - .62 Effect of sun and moon in producing tides
 - .63 Distribution, diurnal inequality, spring and neap, priming and lagging
 - .64 Establishment of a port Coast form modification
 - .65 Velocity of hight of tide wave
 - .66 Tides on inland seas
 - .67 Supposed effect in retarding Earth's revolution
 - .68 Tide registering and predicting machines
 - .69 Tide tables
- .7 **Twilight**
- 526 **Geodesy**

526.2-.8 apply to surveys of large tracts, requiring allowance for earth's curvature and more exact methods of determination. For local surveys see 529.6

 - .1 **Theory and determination of Earth's figure**
 - .11 Potentials of ellipsoids
 - .12 Equilibrium of rotating spheroid
 - .13 Law of ellipticity
 - .14 Airy's and Pratt's theories as to attraction of mountains
 - .15 Determination of figure by Airy, by Bessel, and by Clarke
 - .16 Ellipsoidal figure and position of axes
 - .17 Geoidal figure
 - .2 **Base mesuring and apparatus**
 - .21 Standards of length and temperature
 - .22 Apparatus of Struve, Bessel, Colby, U. S. coast survey, U. S. lake survey, etc.
 - .23 Adjustments of apparatus
 - .24 Location of base line
 - .25 Field operations
 - .26 Calculation of results and corrections
 - .27 Verification
 - .3 **Field work of triangulation**
 - .31 Reconnaissance
 - .32 Stations
 - Names, signals, tripods, scaffolds and towers, surface and underground monuments
 - .33 Observations, instruments and records
 - .34 Reduction to station's center
 - .35 Corrections for phase of signal and eccentricity
 - .36 Spirit leveling
 - .37 Barometric leveling
 - .38 Trigonometric leveling
 - .39

} These are methods. See 551.53, for results, lists of hights, etc.

- 525 4 **Computation of triangulation**
- .41 Spheric excess
 - .42 Legendre's theorem
 - .43 Chord process
 - .44 By spheric trigonometry
 - .45 By spheroidal trigonometry
 See also application of least squares, 522.6
- .46 **L M Z formulas and applications**
- .47 Direct deduction by Bessel
 - .48 Deduction by Puissant
 - .49 Tables for computation
- .5 **Theory of least squares in adjustment of figures, etc.**
- .51 Method of independent angles
 - .52 Adjustment of a quadrilateral
 - .53 Adjustment of triangulation net
 - .54 Method of directions
 - .55 Adjustment for closure of a circuit
 - .56 Method of repetitions
 - .57 Adjustments of base mesures
 - .58 Adjustments of leveling
- .6 **Astronomic determinations and their connection with
 geodetic results**
- .61 Latitude determinations
 - .62 Longitude determinations
 - .63 Azimuth determinations
 - .64 Effect of irregularities of Earth's surface on latitude,
 longitude and azimuth
 - .65 Effect of same on angles of triangle
- .7 **Gravity experiments and results**
- .71 Mathematical theory
 - .72 Pendulum apparatus
 - .73 Pendulum operations
 - .74 Corrections
 - .75 Reduction of results
- .8 **Map projections** See 515.5 Spheric projections
- .81 Prospectiv projections
 - .82 Orthomorphic projections
 - .83 Development projections
 - .84 Zenithal projections
 - .85 Equivalent projections
- .9 **Surveying**
- .91 Instruments and methods See 526.2
 - .92 Measurement of distances

- 526.93 Measurement of angles
 .94 Measurement of heights
 .95 Leveling See 526.36-38
 .96 Plotting
 .97 Computation of areas
 .98 Topographic drawing
 .99 For special purposes: military, naval, railroad, mining, etc.
- 527 Navigation
 .1 Finding latitude at sea See also 525.41
 .2 Finding longitude at sea See also 525.46
 .3 Finding time at sea See also 529.74
 .4 Sumner's method
 .5 Great circle sailing
- 528 Ephemerides Nautic almanacs
 .1 American
 .2 English
 .3 German
 .4 French
 .5 Italian
 .6 Spanish
 .7 Slavic
 .8 Scandinavian
 .9 Construction of ephemeris
- 529 Chronology
 .1 Sidereal and solar day
 Apparent and mean time, equation of time, causes of inequality
 .2 Solar year, months
 .3 Calendars; including early and Oriental
 .4 Calendar of Julius Caesar
 .5 Calendar of Gregory, 1582- Almanacs
 .6 Ecclesiastic calendar: determination
 For feasts, etc. and calendars themselves, see 264.021, 264.031, etc.
 .7 Horology
 .71 Finding time by transit
 .72 Finding by equal altitudes
 .73 Finding by single altitude
 .74 Finding by sextant See also 527.3
 .75 Time systems. and standards
 .76 Distribution of time
 .77 Cosmic time
 .78 Instruments for measuring: dials, hourglasses, clocks
 watches, etc.
 See 522.51 for Sidereal clocks and chronometers
 See 681 for Clock and watch making

530 Physics

Like Science in general: viz, general works only are arranged
 530.1 Philosophy .2 Compendis, textbooks .3 Dictionaries .4 Essays, lectures, etc.
 .5 Periodicals .6 Societies .7 Education, methods of teaching, experiments
 .8 Physical units, measuring instruments .9 History

531 Mechanics

- .1 Pure motion Kinematics
- .18 *relativity*
- .2 Statics Graphic statics
- .21 Force and its mesure
- .22 Composition of forces and motions
- .23 Moments
- .24 Parallel forces Center of gravity
- .3 Dynamics Kinetics
- .31 Rectilinear motion
- .32 Vibration
- .33 Undulation
- .34 Rotation
- .35 Centrifugal and centripetal force
- .4 Work Friction See 621.89 Lubrication
- .41 Unit of work
- .42 Diagram of work
- .43 Laws of friction Modulus of machines
- .44 Sliding friction
- .45 Rolling friction
- .5 Gravity
- .51 Law of universal gravitation
- .52 Laws of falling bodies
- .53 Pendulum
- .54 Mass, density, etc.
- .55 Projectils
- .58 Apparatus for illustration
- .6 Conservation of energy
- .7
- .8 Machines Transmission of force
- See also 621.8 Mechanism of transmission
- .81 Lever and balance
- .82 Wheel and axle
- .83 Cord and catenary
- .84 Pulley
- .85 Inclined plane
- .86 Wedge
- .87 Screw
- .88
- .9 Tables Problems Questions

532 Liquids Hydrostatics Hydraulics

- .1 Properties of liquids Pressure
- .2 Equilibrium of liquids
- .3 Buoyant effects Floating bodies
- .4 Specific gravity Hydrometer
- .5 Liquids in motion Hydrodynamics
 - .51 Theoretic flow
 - .52 Orifises, adjutages, fluid vein
 - .53 Weirs, overfalls
 - .54 Pipes, open channels, rivers
 - .55 Bends, valvs, sudden enlargements and contractions
 - .56 Efflux; variable pressure
 - .57 Hydrometry Velocity
 - .58 Impulse and resistance
 - .59 Theory of waves
- .6 Capillary attraction
- .7 Osmose Absorption
- .8 Applications Machines See 621.2 Water engines

Except for libraries making Physics much more prominent than Useful arts, all the 'Applications' will be more useful under their proper heds in Useful arts. It is better to keep all the material in one place, referring to it from the other, rather than attempt division

 - .81 Hydraulic press See also 621.266
 - .82 Hydraulic engin See also 621.25
 - .83 Water ram See also 621.27
 - .84 Water wheels See also 621.21
 - .85 Water blast See also 621.269
- .9 Tables Problems Questions

533 Gases Pneumatics

- .1 Properties of gases and vapors Adsorption
- .2 Laws of compressibility
- .3 Atmosphere
 - .4 Barometer
 - .5 Air pump
 - .6 Aeronautics
- .7 Kinetic theory of gases
- .8 Applications See 621.6 Blowing and pumping engins

Preferably clast in Useful arts, see 532.8. note

 - .82 Manometer Pressure gages See 621.18 Steam generation
 - .83 Condensing pump
 - .84 Force pump
 - .85 Suction pump
 - .86 Diving bell
 - .87 Forge bellows
 - .88 Pneumatic dispa tch
- .9 Tables Problems Questions

534 Sound Acoustics

- .1 Theory Undulations
- .2 Propagation of sound: velocity, diffraction
- .3 Musical sound Tuning forks See also 781.1 Theory of music
- .4 Analysis of sounds Resonators
- .5 Superposition of vibrations
- .6 Graphic representations
- .7 Physiologic: ear and larynx
For other relations see Ear, Larynx, in Relativ index following Tables
- .8 Applications Preferably clast with topics elsewhere See 532.8, note
- .81
- .82
- .83 Signals in navigation See also 654.9 Communication
- .84 Applications to architecture
- .85 Musical instruments See also 780 Music
- .86 Phonograf
- .9 Tables Problems Questions

535 Light Optics

- .1 Theory
- .2 Propagation Velocity Measurement of light
- .3 Reflection Refraction Absorption
See also 522.92 Astronomy
- .4 Dispersion Diffraction Interference
- .5 Polarization Polariscopes Double refraction
- .6 Color
- .7 Physiologic: eye
Optical principles of sight. See also Eyes in Relativ index
- .8 Applications Preferably clast with topics elsewhere See 532.8, note
- .81 Lenses and prisms
- .82 Microscopes and magnifiers See also 578 Microscopy
- .83 Telescopes See also 522.2 Astronomy
- .84 Spectroscopes and spectrum analysis
Most general number. See also Spectroscopy, Spectrum, in Relativ index for other relations and applications
- .85 Fotografy See also 770
- .86 Other applications of lenses
- .87 Mirrors and reflecting instruments
- .88 Lighthouses See also 627.9 Harbor engineering; 656 Commerce
- .89
- .9 Tables Problems Questions

536 Heat

- .1 Theory Nature
- .2 Communication
- .3 Action of bodies on heat
 - .31 Reflection
 - .32 Refraction
 - .33 Radiation
 - .34 Absorption
 - .35 Diathermancy
- .4 Effects Action of heat on bodies
 - .41 Expansion
 - .42 Liquefaction
 - .43 Solidification
 - .44 Vaporization and condensation
 - .45 Incandescence
 - .46 Combustion Flame
- .5 Temperature See also 551.52 Meteorology; 613.18 Hygiene
 - .51 Thermometry
 - .52 Pyrometry
 - .53 Electric methods of measuring
- .6 Calorimetry
- .7 Thermodynamics Mechanical equivalent
- .8 Applications Preferably go in Useful Arts. See 532.8, note
 - .81 Steam engines See 621.1 Engineering
 - .82 Gas engines See 621.43 Engineering
 - .83 Heating See 697, 621.19, 628.8, 644
 - .84 Ventilation See 697, 622.4, 628.8
- .9 Tables Problems Questions

537 Electricity

- See also 621.3 Electric engineering
- .1 Theory Nature
- .2 Static
 - .21 Quantity, potential
 - .22 Conduction, distribution
 - .23 Machines
 - .24 Condensers
 - .25 Electrometers
- .3
- .4 Atmospheric Lightning rods
- .5 Dynamic
 - .51 Theory of coils Constants
 - .52 Induction spark
 - .53 Induction spark in rarified gases
- .6 Electro dynamics
- .7 Electric measurements

NATURAL SCIENCE

- 537.8 Applications** Preferably class in Useful arts. See 621.3, and 532.8, note
- .81 **Telegraf** For telegraf business see 654
 - .82 **Telefone Microfone**
For telefone business see 654.6
 - .83 **Dynamos Electric lighting**
 - .84 **Tranmission of power Storage**
 - .85 **Electrometallurgy**
 - .86 **Galvanometers Batteries Coils**
 - .87 **Medicin** See also 615.34
 - .88 **Electric signals** See 654.9
 - .9 **Tables Problems Questions**

538 Magnetism

For Animal magnetism, Mesmerism, etc., see 134

- .1 **Theory Properties of magnets Lines of force**
- .2 **Communication Induction Touch**
- .3 **Electromagnetism**
- .4 **Diamagnetism**
- .5
- .6
- .7 **Terrestrial magnetism**
- .8 **Applied Magnetic machines**
- .9 **Tables Problems Questions**

539 Molecular physics

- .1 **Theory Molecular structure** Vortex rings *atomic structure, Quantum theory*
- .2 **Properties of solids**
- .3 **Elasticity Torsion**
- .4 **Strength of materials**
See also 620.1 Engineering materials
- .5 **Permanent displacement of molecules**
- .51 **Malleability**
- .52 **Ductility**
- .53 **Hardness**
- .54 **Tempering**
- .6 **Intermolecular forces**
- .7
- .8
- .9 **Tables Problems Questions**

540 **Chemistry**

Pure or theoretic chemistry

- .1 Theories, alchemy, phlogiston .2 Compends .3 Dictionaries, cyclopedias
 .4 Essays, lectures, etc. .5 Periodicals .6 Societies .7 Education, methods
 of teaching .8 Collectiv works .9 History

SUMMARY

- 541-542 **General chemistry**
 541 Chemic theories
 542 Operativ and experimental chemistry
 543-545 **Analytic chemistry**
 543 Analysis
 544 Qualitativ analysis
 545 Quantitativ analysis
 546 **Inorganic chemistry**
 547 **Organic chemistry**

REFERENCES

- | | | | |
|---------|-----------------------|-----|-------------------|
| 612.015 | Physiologic chemistry | 660 | Chemic technology |
| 615 | Medical | 669 | Metallurgy |
| 616.076 | Pathologic | 770 | Photografy |

541 **Theoretic chemistry** **Physical chemistry**

Modern chemic theories General properties of bodies from chemic point of view
 Composition Constitution Elements and compounds Affinity
 Formulas Nomenclature

.1

.2 **Atomic theory**

Ultimate constitution of matter. Nature and phases of ultimate particles: atoms, ions, anions, kations, electrons. Atomicity. Relationship of mass to chemic properties of bodies. Laws of chemic combination: weight, definit proportions, equivalence, multiple proportions. Laws of volume for gases. Simple or compound nature of chemic elements. Molecules. Atomic and molecular weights; methods of determination. Atomic and molecular volumes. Laws fundamental to atomic theory; see also 541.9 Classification, periodic law, etc.

See also physics, 532.4 Specific weights

.3 **Physical chemistry**

Borderland between physics and chemistry. Including densities in different phases; chemic affinity, statics and dynamics; thermochemistry and electro-chemistry

.31 **Solid state**

See also physics, 536.43 Solidification; 539.2 Properties of solids

.32 **Liquid state**

See also physics, 532.1 Properties of liquids; 536.42 Liquefaction; 541.34 Solution

.321 **General**

Surface tension, vapor tension, viscosity, capillarity

.325 **Special types of liquids: gelatinous liquids**.326 **Inorganic liquids**.327 **Organic liquids**.33 **Gaseous state**

Subdivide like 541.32. See also physics, 533.1 Properties of gases; 536.41 Vaporization

NATURAL SCIENCE

- 541.34 Solute state Solubility
- .341 General
 Surface tension, viscosity, diffusion, osmosis, conductivity. See also
 532.7 Osmose of liquids; 542.7 Dissolving
- 1 Theories: kinetic, hydrate and dissociation
- 2 Laws Terminology
- .342 Solution pressure Solubility
 Tables of solubility
- .344 Solubility and solution of different forms
 1 Solids 2 Liquids 3 Gases Absorption
- .345 Solution types
 2 Colloid solutions Emulsions
 Including general discussion of colloids
- .346 Solvents
- .35 Photochemistry
 Relation of light to chemic action, of polarized light to chemic structure, etc.
- .36 Thermochemistry
 Relationship of heat to chemic properties of bodies. Thermodynamics and
 energetics applied to chemistry. Relations between specific heat and
 chemic constitutions. Molecular heats; atomic heats; latent heats of
 physical, allotropic, and chemic transformations. Principle of initial and
 final phases. Study of changes of phase. Melting points and boiling
 points. Liberation and absorption of heat in reactions. Exothermic and
 endothermic reactions. Variation with temperature of the quantity of heat
 used in transformations. Principle of maximum work
- .37 Electrochemistry
- .378 Magnetochemistry
- .38 Radiochemistry
 Chemistry of radioactiv substances
- .39 Chemic dynamics, statics and equilibrium Affinity
 Homogeneous and heterogeneous chemic equilibriums. Kinetic theory of
 chemic equilibriums (of Guldberg and Waage, Pfaundler, van't Hoff);
 thermodynamic theory (of Willard Gibbs, of Horstmann, of van't Hoff, of
 Duhem, etc) Reaction velocities. Accelerating and retarding influences.
 Catalysis. See also in physics 536.7 Thermodynamics and energetics
 Variation of affinity with physical conditions. Valence. Combinations.
 Unlimited and limited decomposition. Dissociation, efflorescence, limits of
 dissociation and maximum dissociation. Combustion
- .4 Various types of compounds
 Acids, bases, salts, alloys
- .5 Molecular types
- .6 Compound radicals
 Stereochemistry Formulas of structure
- .7 Allotropy
 Isomerism Amorfous and crystallin states Tautomerism Polymerism
 Class here material on structure not included in 541.6
- .9 Other general subjects
 Classification Nomenclature Notation Formulas Stoichiometry
 Tables Periodic law

542 Practical and experimental chemistry

- Manipulations Chemic operations For analyses see 543-545
- .1 Laboratories**
 Interior construction and installation General arrangements For architecture see 727.5
- .2 Apparatus and manipulations** For special apparatus see 542.3-.9
- .21 Manipulations** Arrangements Procedure
- .22 Preparation of substances**
 Mechanic separation: trituration, pulverization, porphyzation; mortars and pestles, crushers, sifting and sivs. Disintegration by wetting heated mass. Levigation
- .23 Laboratory receptacles and their accessories**
 For uses of receptacles see also various processes and operations
- .231 Glass and quartz**
 Beakers, bottles, flasks, retorts, test tubes, funnels, adapters, glass rods and tubing
- 5 Glass manipulation: blowing, grinding**
- 232 Porcelain**
 Evaporating dishes, tubes, retorts. Refractory pottery: crucibles, plates
- .233 Metallic**
 Containers made of platinum, silver, iron, nickel, aluminum, etc.
- .24 Supports** Fixt, adjustable, wood. Triangles, tripods, clamps
- .25 Stoppers** Glass, cork, rubber Corkborers
- .26 Rubber tubing** Luting and cements
- .29 Other appliances**
- .3 Measuring apparatus**
- .32 Determination of weights and density**
 Balances and weights Descriptions and directions for use
- .33 Specific gravity apparatus** Class preferably in 532.4
- .35 Determination of volume**
 Mesuring volume of liquid Calibrated vessels Graduated pipets, burets and cylinders
- .4 Heating Distillation**
 See also 536.5 Measurement and regulation of heat; 542.53 Blowpiping
- .41 General**
- .42 Heating with coal**
 Laboratory furnaces: trough, cupola, reverberatory, tubular, cupel, blast
 Tube furnaces for organic analysis
- .43 Heating with liquid fuels, etc.** Lamps; special burners
- .44 Heating with gas**
 Coal gas, carburetted air, acetylene, etc.
 Fishtail and Bunsen burners; gas furnaces and grates; pressure regulators
- .46 Indirect heating**
 Baths and heaters: water baths; salt, metal and oil baths; metal plates or wire gauzes
- .47 Electric heating**
 Heaters, muffles and furnaces; kryptol furnaces
 See also 542.8 Electric and galvanic manipulations
- .48 Operations**
 Melting, fusing, boiling. Vaporization, distillation. Distilling apparatus, alembics or stills. Deflegmators. Vacuum operations
 Evaporation with heat: sublimation, dessication. For evaporation in vacuum see 542.77
- .49 Other heating operations**

542.5 **Flames Blowpipes**

See also 544.2 Dry methods of analysis; 669.9 Assaying

.51 **Flame**

Nature of flame; candle flame; oxidizing and reducing flames

.52 **Coloration of flame**

Beads, colored beads Composit flames

.53 **Blowpipes**

Varieties of blowpipes and how to use them

For applications see Blowpiping in Relativ index following Tables

.6 **Aqueous and liquid treatment**

Dissolving, aqueous separation, levigation, etc; alcohol, ether, carbon disulfid, hydrocarbons, etc.

.61 **Dissolving Solution**

Solvents, maceration, digestion, decoction, lixiviation

.62 **Determination of solubility Supersaturation**

Supersaturated solution

.63 **Diffusion**

Lowering the solidification point or surfusion

.64 **Dialysis Dialyzers**

See also qualitativ analysis 544.5 Dialysis

.65 **Solidification**

Precipitation, crystallization, crystallizers

.66 **Decantation**

Decantation funnels, Florentin receivers, sifons, pipets

.67 **Filtration and filters**

Filtration with textiles, with paper, thru cotton, asbestos, powders, etc.

Hot filtration Filtration in sealed vessels, by suction, by compression

Filter presses

.68 **Expression and presses Drying of press residues; drying machines**

.69 **Washing Continuous, automatic; decantation, wash bottles**

.7 **Gas manipulation**

See also 545.7 Eudiometry

.71 **General**

.72 **Gas production**

.73 **Gas collecting and decanting**

Pneumatic trof, gas sampling-tube, gas pipets; displacement and decanting

.74 **Washing and dissolving gas**

Wash bottles Apparatus for drying and absorbing gas

.75 **Gas storage Gasometers, rubber bags**

.76 **Gas mesurement Graduated tubes, meters**

.77 **Rarefaction of gas**

Pumps: air, vacuum, mercury; blowing engins, bellows, suction gasometers; manometers; vacuum regulators; trompes

See also physics, 533.5 Air pumps

.78 **Gas compression**

Seald tubes and bulbs, bellows, compression pumps, gasholders

.79 **Gas liquefaction and solidification**

Faraday tubes Apparatus for expansion; of Thilorier; of Cailletet and Linde

542.8 Electric and galvanic manipulations

See also physics, 537.85 Applications of electricity to chemistry. Class here only apparatus for preparing chemic substances, not apparatus for study of phenomena. For analytic apparatus see special substance under 543 or special process under 544 or 545

.9 Other operations

Attacks by acids and gases; oxidations, reductions etc

543-545 Analytic chemistry**543 Analysis**

Divided by material analyzed, whether qualitatively or quantitatively; i.e. substance takes precedence of process. Class in 543 general works covering both qualitative and quantitative analysis

See also 614.3 Adulterations

.1 Analysis of food and drink

See also 613.2 Hygiene, 612.39 Nutrition

.2 Dairy products Milk

See also agriculture, 637 Dairy products

.3 Water

See also hygiene 613.31 Water as a beverage; and therapeutics 615.79 Mineral waters

.4 Analysis of drugs and medicins

See also 614.35 Inspection of drugs; 615 Medicin

.5 Poisons

See also 615.9 Toxicology

.6 Analysis of rocks and ores

See also 549 Mineralogy, 669.9 Assaying, 631 Agricultural chemistry

.7 Analysis of inorganic products in general

For general works and special matter not provided for in previous subdivisions of 543

.8 Analysis of organic products in general

For general works and special matter not provided for in previous subdivisions of 543

.9 Analysis of organic products of animal origin

For general works and special matter not provided for in previous subdivisions of 543 See also 577 Biology

544 Qualitative analysis

Determination of chemie elements of substances General processes and methods

- .1 **Wet method**
- .11 Reagents
- .12 Determination of bases
- .13 Determination of acids
- .2 **Dry method**
See also 669.9 Assaying
See also 542.53 Manipulation, 549.1 Mineralogy
- .4 **Gas analysis Reactions**
Identifying an isolated gas Analysis of gaseous mixtures See also 545.7
Eudiometry
- .5 **Dialysis**
For technic see 542.64; for electric dialysis see 542.8
- .6 **Spectrum analysis**
See also physics, 535.84 Spectrum analysis
- .7 **Polariscopic analysis**
See also physics, 535.5 Polarization
- .8 **Microscopic examinations**
- .9 **Other methods**
Electro analysis
- .92 Capillary analysis

545 Quantitative analysis

- .1 **Gravimetric**
Analysis by weighing, sampletaking
- .2 **Wet method**
Titration solution, alkalimetry, acidimetry
- .3 **Electric methods**
See also physics, 537.85 Electrometallurgy
For galvanoplastics see 671
- .311 Constant current analysis
- .312 Constant voltage analysis
- .36 Catalytic analysis
- .4 **Dry method**
Quantitative analyses with blowpipe, cupellation etc.
See also 669.9 Assaying
- .5 **Titrometric methods in general**
- .6 **Volumetric analysis of liquids**
See also 542.3 Mesuring apparatus
- .7 **Volumetric analysis of gases**
Eudiometry and eudiometers; gas burets, absorption pipets
See also 544.4 Gas analysis
- .8 **Other methods**
Colorimetric Polarimetric Refractometric
- .9 **Synthesis**
General processes
- .97 **Electric synthesis**

546-547 Inorganic and organic chemistry

546 Inorganic chemistry.

- .1 Nonmetallic elements**
- .11 Hydrogen
- .12 Halogen group**
- .13 Chlorin
- .14 Bromin
- .15 Iodin
- .161 Fluorin
- .17 Nitrogen group** Nitrogen
- .18 Phosphorus
- .191 Arsenic
- .2 Oxygen group**
- .21 Oxygen
- .22 Sulfur
- .23 Selenium
- .241 Tellurium
- .25 Carbon group**
- .26 Carbon
- .27 Boron
- .28 Silicon
- .29 Helium group**
- .291 Helium
- .292 Neon
- .293 Argon
- .294 Krypton
- .295 Xenon
- .3 Metals**
- .31 Alkali group**
- .32 Potassium
- .33 Sodium
- .34 Lithium
- .35 Rubidium
- .36 Caesium
- .37
- .38
- .39
- .4 Alkaline earths**
- Calcium and magnesium groups considered together
- .41 Calcium
- .42 Strontium
- .43 Barium
- .432 Radium See also 541.3
- .44 Magnesium group**
- .45 Beryllium or glucinum
- .46 Magnesium
- .47 Zinc
- .48 Cadmium
- .49

- 546.5 **Led and silver group**
- .51 Led
 - .52 Thallium
 - .55 Silver group**
 - .56 Copper
 - .57 Silver
 - .58 Mercury
 - .59
 - .6 Cerium group Rare earths**
 - .61 Yttrium
 - .62 Cerium
 - .63 Lanthanum
 - .64 Didymium
 - .642 Praseodymium
 - .643 Neodymium
 - .65 Erbium
 - .652 Ytterbium
 - .653 Terbium
 - .66 Aluminum
 - .67 Indium
 - .68 Gallium
 - .69 Other metals of rare earths**
 - .691 Scandium
 - .692 Samarium or decipium
 - .694 Gadolinium
 - .695 Germanium
 - .696 Europium
 - .697 Thulium
 - .7 Iron group**
Iron and chromium groups considered together
 - .71 Manganese
 - .72 Iron
 - .73 Cobalt
 - .741 Nickel
 - .75 Chromium group**
 - .76 Chromium
 - .77 Molybdenum
 - .78 Tungsten or wolfram
 - .791 Uranium See also 541.38
 - .8 Tin group**
Tin and vanadium groups considered together
 - .81 Tin
 - .82 Titanium
 - .83 Zirconium
 - .841 Thorium See also 541.38
 - .842 Actinium See also 541.38
 - .85 Vanadium group**
 - .851 Vanadium
 - .86 Antimony
 - .87 Bismuth
 - .88 Tantalum
 - .891 Niobium or columbium
 - .892 Polonium See also 541.38

- 546.9 **Platinum group**
 .91 Gold
 .92 Platinum
 .93 Iridium
 .94 Osmium
 .95 **Ruthenium group**
 .96 Ruthenium
 .97 Rhodium
 .98 Palladium
 .99 **False and putativ elements**
 Arrange alfabetically

547 **Organic chemistry**

- .1 **Cyanogen and its compounds**
 .2 **Hydrocarbons Fatty series**
 For occurrence as minerals see 549.8
 .21 Paraffins
 .22 Olefins
 .23 Acetylenes
 .24 Valylene Dipropargyl, etc.
 .25 **Aromatic series**
 .26 Benzenes
 .27 Diphenyl group
 .28 Naphthalene Anthracene Phenanthrene
 .29 Higher series
 The 7 heds 547.3-547.9 are subdivided like 547.2
 .3 **Alcohols Phenols**
 .4 **Ethers: simple, compound; haloid**
 .5 **Aldehydes**
 .6 **Ketones Quinones**
 .7 **Acids: acid halids, acid anhydrids, sulfo-acids**
 .8 **Nitroderivates: amins, compound ammoniums, amids,**
 amic acids, azo-bodies, azoxy-bcdies, hydrazo-bodies,
 diazo-bodies
 .9 **Compounds with metals**

548 Crystallography

General; phenomena of a special mineral belong with that mineral; e. g. cleavage of borates 549.73

- .1 Systems of crystallization
- .2 Twin crystals Crystallin aggregations
- .3 Cleavage Isomorfism Polymorfism
- .4 Irregularities Internal imperfections
- .5 Formation and growth of crystals
- .6 Pseudomorfs
- .7 Mathematic: mesurement of angles
- .8 Physical
- .9 Optical

549 Mineralogy

.01 Philosophy, classification .02 Compendis .03 Dictionaries .04 Essays, papers, etc. .05 Periodicals .06 Societies .07 Study and teaching, museums .08 Collectiv works .09 History

- .1 **Determinativ Blowpiping**
 See also 543.6 Methods of analysis of rocks and ores
 See 542.53 Blowpipes and their manipulation. For other relations see Blowpiping in Relativ index following Tables
- .2 **Nativ elements**
- .3 **Sulfids, tellurids, selenids, arsenids, antimonids, bismuthids**
- .4 **Compounds of chlorin, bromin, iodin, and fluorin**
- .5 **Oxygen compounds: oxids**
- .6 **Silicates**
- .61 Anhydrous
- .65 Hydrous
- .7 Other ternary oxygen compounds
- .71 Tantalates Columbates
- .72 Phosphates Arsenates Vanadates Antimonates
 Nitrates
- .73 Borates
- .74 Tungstates Molybdates Chromates
- .75 Anhydrous sulfates
- .76 Hydrous sulfates
- .77 Tellurates
- .78 Carbonates
- .79 Oxalates
- .8 **Hydrocarbons**
 Occurrence as minerals. For chemistry of hydrocarbons see 547.2; for economic geology see 553.2
- .9 **Geografic distribution**

Deposits - see 553

550 **Geology**

550.1 Philosophy, theories, geologic time .2 Compendis .3 Dictionaries .4 Essays
papers, tracts, letters .5 Periodicals .6 Societies .7 Study and teaching,
museums .8 Collectiv works .9 History

551 **Physical and dynamic geology**

Including geophysics (physiography, physical geography) and geochemistry broadly
treated; see also 551.94. For Cosmic geography, see 523

- .1 **Structure of earth as a whole**
- .11 Interior of earth
- .12 Internal heat
- .13 Earth's crust
- .14 Conductivity of rocks
- .2 **Seismology**
- .21 Volcanoes
- .22 Earthquakes
- .23 Hot springs, geysers
- .24 Oscillations of the earth's crust
- .3 **Erosion and deposition**
- .31 Glaciers and glacial phenomena
- .32 Moraines
- .33 Transported materials, till
- .34 Icebergs
- .35 Aqueous erosion
- .36 Coast changes
- .37 Aerial erosion
- .4 **Surface features of the earth**
- Physical geography
- .41 Continents Division of Oceans for use under .46
and .47
- .42 Islands 1 Atlantic North sea Baltic
- .43 Mountains Valleys Orology 2 Mediterranean Black sea
- .44 Caves 3 Gulf of Mexico Caribbean
- .45 Plains 4 Southern Atlantic
- .46 Oceans 5 Pacific
- .47 Ocean currents 6 Eastern Pacific or American coast
- .48 Rivers Lakes 7 Indian Bay of Bengal Red sea
- .49 Springs Wells Ground water 8 Arctic
- .5 **Meteorology Climate** 9 Antarctic
- .51 Atmospheric currents Winds
- .52 Thermometry, heat
- For other relations see Heat, Temperature, in Relativ index following Tables
- .53 Hypsometry, elevations See 526.36-8 for methods
- .54 Barometry, pressure
- .55 Storms
- See also 537.4 Atmospheric electricity
- .57 Moisture: rainfall, flow of streams, floods
- .58 Prairies, forests, and deserts

- 551.6 **Metamorfism**
- .7 **Stratigrafic geology**
- .71 Archean
- .72 Primary, paleozoic, Cambrian
- .73 Silurian
- .731 Lower Silurian
- .732 Upper Silurian
- .74 Devonian Old red sandstone
- .75 Carboniferous
- .76 Secondary, mesozoic, triassic and Jurassic: lias, oolite
- .77 Cretaceous
- .78 Tertiary, cenozoic
- .781 Eocene, oligocene
- .782 Miocene
- .783 Pliocene
- .79 Quaternary Postpliocene Glacial
- .791 Recent
- .8 **Structural geology**
- .81 Stratification
- .82 Curvature and contortion
- .83 Ripple marks and sun cracks
- .84 Joints Cleavage Polarity in rocks
- .85 Dip Outcrop Strike
- .86 Anticlinal Synclinal
- .87 Faults and folds Dislocations
- .88 Veins Dykes Necks Bosses
- .89
- .9 **Agents of geologic work**
- .91 Frost
- .92 Water
- .93 Atmosphere
- .94 Geochemistry
Chemic changes: heat. See also note to 551
- .95 Animals
- .96 Coral reefs
- .97 Plants
- .98 Segregation and concretion
- .99 Other agents

552 Lithology Petrography Petrology

- .1 **Igneous rocks**
- .2 Volcanic rocks
- .21 Lavas Scoria
- .22 Volcanic ashes Volcanic tufa Tuff
- .23 Obsidian Pumis Pitchstone
- .24 Trachyte
- .25 Rhyolite
- .26 Andesite Dacite Phonolite
- .27 Felsites
- .28 Basalt
- .29 Other volcanic rocks
- .3 Plutonic rocks
- .31 Porphyry Porphyrite
- .32 Syenite
- .33 Granit
- .34 Diabase and gabbro
- .35 Dolerite
- .36 Diorite
- .37 Norite
- .38 Peridotite
- .39 Other Plutonic rocks
- .4 **Metamorphic rocks**
- .41 Granits and syenites
- .42 Gneiss
- .43 Schists
- .44 Slates Argillite Phyllite
- .45 Quartzite Novaculite Itacolumite
- .46 Marble Crystallin limestone
- .47 Serpentine
- .48 Chrysolitic rocks
- .49 Other metamorphic rocks
- .5 **Sedimentary rocks**
- .51 Sandstone Conglomerate Sand Gravel
- .52 Shale Clay Silt
- .53 Gypsum Salt
- .54 Limestone Marl Ooze
- .55 Dolomite
- .56 Oolite
- .57 Infusorial or diatomaceous earth
- .58 Glauconite Greensand
- .59 Other sedimentary rocks
- .6 **Meteorites**
- .7 **Decay of rocks**

- 552.8 **Microscopic petrography**
- .81 Detérmination of rock minerals
- .82 Rock structure

553 **Economic geology** See also 622 Mining engineering

- .1 **Ore deposits**
- .11 Formation and structure
- .12 Classification
- .13 Superficial: placers
- .14 Stratified: beds, etc.
- .15 Unstratified
- .16 Disseminated thru eruptiv rocks
- .17 Stockwerks Fahlbands Contacts
- .18 Chambers and pockets Impregnations
- .19 Mineral veins

- .2 **Carbon series**
- .21 Peat
- .22 Lignite and jet
- .23 Cannel coal Bituminous shale
- .24 Bituminous and semibituminous coals
- .25 Anthracite and grafitic anthracite
- .26 Grafite Plumbago
- .27 Asfalt and asfaltic coals Ozocerite
- .28 Petroleum Natural gas
- .29 Fossil gums and resins

While the history of all other products goes in 553, history of metals is more usefual in 669, Metallurgy

- .3 **Ores of iron**
- .4 **Ores of metals other than iron**
- .41 Ores of gold
- .42 Ores of silver
- .43 Ores of copper
- .44 Ores of led
- .45 Ores of zinc and tin Mercury
- .46 Ores of manganese and chromium
- .47 Ores of antimony and arsenic
- .48 Ores of nickel and cobalt
- .49 Other metallic ores

- .5 **Bilding stones**
- .51 Marbles and limestones
- .52 Granits and syenites
- .53 Sandstones
- .54 Slates
- .55 Serpentine Soapstones
- .56 Porphyries
- .57 Trap
- .58 Tufa Peperino
- .59 Other bilding stones

- 553.6 Earthy economic minerals**
- .61 Fire clays Brick clays Potter's clays
 - .62 Sands
 - .63 Rock salt Gypsum
 - .64 Phosphates Apatite Guano See also 631.85
 - .65 Emery Corundum
 - .66 Hevy spar Sulfur
 - .67 Asbestos, etc.
 - .68 Limes and mineral cements
 - .69 Other earthy economic minerals
 - .7 **Mineral waters**
 Divide general works with 0 geografically like 930-999; e.g.
 Mineral waters of Germanv. 553.7043
 - .71 Alkaline
 - .72 Saline
 - .73 Chalybeate, ironbearing
 - .74 Sulfuric
 - .75 Calcic
 See also 551.23
 - .8 **Gems Ornamental stones**
 - .9 **Other economic minerals**

- 554 Geology of Europe 554-559 subdivided by countries like 940-999
- 555 Geology of Asia
- 556 Geology of Africa
- 557 Geology of North America
- 558 Geology of South America
- 559 Geology of Oceanica Polar regions

- 560 Paleontology** Use form divisions as in 550 and divide .9 geografically like 930-999; e.g. Paleontology of England is 560.942
- 561 Plants 561 is subdivided like Botany, 580
 - 562 Invertebrates 562-569 is subdivided like Zoology, 592-599
 - 563 Protozoa Radiates
 - 564 Mollusks
 - 565 Articulates
 - 566 Vertebrates
 - 567 Fishes Batrachia
 - 568 Reptils Birds
 - 569 Mammals

570 **Biology** **Archeology**

- 570.1 Philosoфы .2 Compendis .3 Dictionaries .4 Essays, lectures, etc.
- .5 Periodicals .6 Societies .7 Study and teaching, museums; nature study
- .8 Collectiv works .9 Histofy

571 **Prehistoric archeology**

For Customs, see 390 For Archeology of special countries, see 913

- .1 **Paleolithic, or early stone age**
- .11 Drift remains
- .12 Cave men
- .13 Remains of animals Shells
- .14 Chipt stones
- .15 Flint flakes Arrow heds Knives, etc.
- .16 Other stone remains
- .19 Other remains
- .2 **Neolithic, or late stone age**
- .21 Stone quarries
- .22
- .23 Remains of animals
- .24 Polisht stones
- .25 Sharpend stones: celts, tools, wepons
- .26 Perforated stones: spindles, net sinkers, pipes
- .27 Hollowd stones: mortars, cups, food vessels
- .28 Other stone remains
- .29 Other remains
- .3 **Bronze age**
- .31 Ancient copper and tin mining
- .34 Bronze remains
- .35 Tools Wepons, etc.
- .37 Cups Vessels
- .39 Other remains
- .4 **Iron age**
- .5 **Other remains**
- .51 Implements of wood
- .52 Implements of bone
- .53 Basket work
- .54 Textil fabrics
- .55 Pottery
- .56 Glass
- .6
- .7 **Rudiments of art** **Ornaments**
- .71 Drawings
- .72 Paint
- .73 Sculptures
- .74 Beads

- 571.8 **Dwellings**
- .81 Natural caves
 - .82 Earth houses Pit dwellings Weems
 - .83 Lake dwellings Crannoges
 - .84 Cliff dwellings
 - .85 Pueblos
 - .86 Tents as dwellings
- .9 **Mounds and monuments**
- .91 Mounds and mound bilders
 - .92 Grave mounds
 - .93 Kitchen middens Shell banks
 - .94 Monoliths Cromlechs
 - .95 Circles Labyrinths
 - .96 Cairns
 - .97
 - .98
 - .99
- 572 **Ethnology Anthropology**
- See also 136.4 Mental race characteristics
- .1 **Unity of the human race**
 - .2 **Diversity of races**
 - .3 **Migrations of men**
 - .4 **Original home of man: Eden, Atlantis, etc.**
 - .5
 - .6
 - .7 **Savages: races divided by practises**
Class description of savages of special country in 914-919; e. g. Australian bushmen 919.4
 - .8 **Races divided by language like 400**
 - .9 **Races divided by countries like 930-999**
Divide by countries where possible. Use language divisions for groups like Semitic, Aryan, Teutonic, English, etc.
- 573 **Natural history of man Somatology**
- .1 **Man's place in nature**
 - .2 **Origin of man**
 - .3 **Antiquity of man**
 - .4 **Influence of climate and surroundings**
 - .5 **Color in man**
 - .6 **Anthropometry**
 - .7 **Craniology**
 - .8 **Dwarfs and giants**
 - .9 **Monstrosities**
See also 611.012 Teratology; 613.91 Congenital defects; 617.3 Deformities

574 Homologies

575 Evolution

See also 213 Creation; 215 Religion and science; 239.8 Apologetics

.1 Heredity

For other relations see Heredity in Relativ index following Tables

.2 Variation See also 591.15 Physiologic zoology

.3 Environment See also 136.2 Mental; 573.4

.4 Natural selection Survival of the fittest

.5 Sexual selection

.6 Development

.7 Degeneration

.8 Origin of species

.9 Origin of sexes See also 591.36 Embryology

576 Origin and beginnings of life

[576-577 are undergoing revision that will change some numbers and greatly enlarge them in a late edition]

.1 Spontaneous generation

.2 Protoplasm Bioplasm

.3 Cells

.4 Beginnings of motion and sensation

.5

.6

577 Properties of living matter

.1 Chemic: difference between organic and inorganic

.2 Life: difference between dead and living matter

.3 Difference between vital and physical phenomena

.4 Conditions of life: moisture, temperature

.5 Difference between plants and animals

.6 Vital force

.7 Deth See also 612.013

.8 Sex in nature

.9

578 Microscopy See also 535.82 Optics

.1 Varieties of microscopes

.2 Optic parts

.3 Mechanical parts

.4 Accessory apparatus and management of microscope

.5 Illuminating apparatus

.6 Preparation and mounting of objects

.7 Special preparation and study of inorganic material

.8 " botanic material See 581.8 Histology

.9 " zoologic material " 591.8

579. **Collectors manuals**
- .1 **Preparing skeletons**
 - .2 **Preservativs and hardening fluids**
 - .3 **Injections**
 - .4 **Taxidermy**
 - .5 **Mounting specimens**
 - .6 **Collecting**
 - .611 Alluring; bait, light, etc.
 - .612 Hunting; nets, collecting bottle, etc.
 - .613 Killing
 - .614 Exchange Purchase
 - .615 Rearing
 - .616 Transporting
 - .7 **Arrangement of specimens in museums**
 - .71 Cabinets
 - .72 Labels
 - .8 **Preservation of specimens**
 - .81 Museum pests
 - .82 Pestifuges
 - .83 Prevention of moisture
 - .84 Retention of colors
 - .9

580 Botany

580.1 Philosophy, classification, nomenclature .2 Compendis .3 Dictionaries, cyclopedias .4 Essays .5 Periodicals .6 Societies .7 Study and teaching, herbariums, botanic gardens .8 Collectiv works .9 History

581 Physiologic and structural botany

Subdivided where wished like 591

- .1 **Physiology**
- .2 **Pathology** **Teratology**
- .2.1 Diseases
- .2.2 Teratology
- .2.3 Parasites
- .3 **Embryology** **Germination**
- .4 **Morfology** **Comparativ anatomy**
- .5 **Habits**
- .6 **Economic**
- .7 **Organografy** **Descriptiv anatomy**
- .8 **Histology** See 578.8

.9 Geografic

.9.1 Distribution of plants

Subdivide .93-99 like 930-999 Use .92 for ocean, marine flo a

This Geografic classification is to be used only for general works and cross references 'Flora of North America' is put 581.97; but 'North American cryptogams' is clast 586 with a reference from 581.97, but North American phanerogams go with 581.97 because it so completely covers the subject

General works covering both Phanerogamia and Cryptogamia are put under 580 as books covering Vertebrates and Invertebrates are put under 590

In applying these numbers to Fossil plants, 561, note that one more figure must be used than in fossil animals. The Zoology numbers are already given in the 3d place in Paleontology, e. g. 592 Invertebrates, 562 Fossil invertebrates, and so on to 599 Mammals, and 569 Fossil mammals. But in Fossil plants, 561, all 8 sections are group together and the section number must be repeated. Fossil phanerogams are 561.2 not 562, which is assignd to Invertebrate zoology as more important. Lichens are 561.91, etc. In the same way the Fossil flora of North America is 561.197, i. e. the first 2 Botany figures, 58, are changed to 561 to give the corresponding Fossil botany number, while in zoology the only change is from 59 to 56 for first 2 figures, except in 591 which can not change to 561, which is assignd to Botany. The Fossil fauna of North America must therefore go among general works under 560.97

582 Phanerogamia

See also 715 Trees; 634.9 Forestry

The subsections below are taken from the recognized authority, Bentham and Hooker's *Genera plantarum*

583 Dicotyledonæ

- .I **Polypetalæ**
- .II **Ranales**
- .III Ranunculacæ
- .II2 Dilleniaceæ
- .II3 Calycanthaceæ
- .II4 Magnoliaceæ
- .II5 Anonacæ
- .II6 Menispermaceæ
- .II7 Berberideæ
- .II8 Nymphæaceæ

583.12	Parietales
.121	Sarraceniaceæ
.122	Papaveraceæ
.123	Cruciferae
.131	Capparideæ
.133	Resedaceæ
.134	Cistineæ
.135	Violarieæ
.137	Canellaceæ
.138	Bixineæ
.14	Polygalineæ
.141	Pittosporæ
.142	Tremandreae
.143	Polygaleæ
.145	Vochysiaceæ
.15	Caryophyllineæ
.151	Frankeniaceæ
.152	Caryophylleæ
.153	Sileneæ
.154	Alsineæ
.155	Polycarpeæ
.156	Portulacæ
.158	Tamariscineæ
.16	Guttiferales
.161	Elatineæ
.162	Hypericineæ
.163	Guttiferae
.166	Ternstroemiaceæ
.167	Dipterocarpeæ
.168	Chlænaceæ
.17	Malvales Malvaceæ
.18	Sterculiaceæ
.19	Tiliaceæ
.21	Geraniales
.211	Lineæ
.213	Humiriaceæ
.214	Malpighiaceæ
.221	Zygophylleæ
.223	Geraniaceæ
.23	Rutaceæ
.241	Simarubeæ
.245	Ochnaceæ
.247	Burseraceæ
.251	Meliaceæ
.255	Chailletiaceæ

583.26	Olacales
.261	Olacineæ
.269	Ilicineæ
.27	Celastrales
.271	Celastrineæ
.274	Stackhousieæ
.275	Rhamneæ
.279	Ampelideæ
.28	Sapindales
.281	Sapindaceæ
.291	Sabiaceæ
.292	Anacardiaceæ
.297	Anomola
.298	Coriariæ
.299	Moringeæ
.3	Rosales
.31	Connaraceæ
.32	Leguminosæ
.37	Rosaceæ
.38	Saxifrageæ
.39	Crassulaceæ
.393	Droseraceæ
.394	Hamamelideæ
.396	Bruniaceæ
.398	Halorageæ
.4	Myrtales
.411	Rhizophoreæ
.414	Combretaceæ
.42	Myrtaceæ
.43	Melastomaceæ
.441	Lythriæ
.445	Onagrarieæ, cenothers
.45	Passiflorales
.451	Samydaceæ
.453	Loaseæ
.455	Turneraceæ
.456	Passifloreæ
.461	Cucurbiyaceæ
.468	Begoniaceæ
.469	Datisceæ
.47	Ficoidales
.471	Cactæ
.475	Ficoideæ
.48	Umbellales
.481	Umbelliferæ
.491	Araliaceæ
.497	Cornaceæ

583.5	Gamopetalæ	
.51	Rubiales	Caprifoliaceæ
.52		Rubiaceæ
.53	Asterales	
.531		Valerianæ
.541		Dipsaceæ
.546		Calysereæ
.55		Compositæ
.57	Campanales	Stylidiæ
.58		Goodenovieæ
.59		Campanulaceæ
.6	Ericales	
.61		Vacciniaceæ
.62		Ericaceæ
.63		Monotropæ
.64		Epacrideæ
.65		Diapensiaceæ
.66		Lennoaceæ
.67	Primulales	
.671		Plumbagineæ
.672		Primulaceæ
.677		Myrsineæ
.68	Ebenales	
.681		Sapotaceæ
.685		Ebenaceæ
.686		Styraceæ
.7	Gentianales	
.71		Oleaceæ
.716		Salvadoraceæ
.72		Apocynaceæ
.73		Asclepiadeæ
.74		Loganiaceæ
.75		Gentianeæ
.76	Polemoniales	
.761		Polemoniaceæ
.764		Hydrophyllaceæ
.77		Boragineæ
.78		Convolvulaceæ
.79		Solanaceæ
.8	Personales	
.81		Scrophularineæ
.821		Orobanchaceæ
.825		Lentibulariæ
.829		Columelliaceæ
.83		Gesneraceæ
.84		Bignoniaceæ
.85		Pedaliæ
.86		Acanthaceæ
.87	Lamiales	
.871		Myoporineæ
.876		Selagineæ
.88		Verbenaceæ
.891		Labiata
.899	Ordo anomalus	Plantagineæ

583.9

Apetalæ

- .91 **Curvembryeæ**
- .911 Nyctagineæ
- .912 Illecebraceæ
- .913 Amarantaceæ
- .914 Chenopodiaceæ
- .915 Phytolaccaceæ
- .916 Batideæ
- .917 Polygonaceæ
- .92 **Multiovulatæ aquaticæ**
- .921 Podostemaceæ
- .922 **Multiovulatæ terrestres** Nepenthaceæ
- .923 Cytinaceæ
- .924 Aristolochiaceæ
- .925 **Micrembryeæ** Piperaceæ
- .926 Chloranthaceæ
- .927 Myristiceæ
- .928 Monimiaceæ
- .93 **Daphnales**
- .931 Laurineæ
- .932 Proteaceæ
- .933 Thymelæaceæ
- .934 Penæaceæ
- .935 Elæagnaceæ
- .94 **Achlamydosporeæ**
- .941 Loranthaceæ
- .943 Santalaceæ
- .947 Balanophoreæ
- .95 **Unisexuales**
- .951 Euphorbiaceæ
- .961 Balanopseæ
- .962 Urticaceæ
- .971 Platanaceæ
- .972 Leitnerieæ
- .973 Juglandææ
- .974 Myricaceæ
- .975 Casuarineæ
- .976 Cupuliferæ
- .98 **Anomali**
- .981 Salicineæ
- .983 Lacistemaceæ
- .984 Empetraceæ
- .987 Ceratophylleæ

584

Monocotyledona

- .1 **Microspermeæ**
- .11 Hydrocharideæ
- .13 Burmanniaceæ
- .15 Orchideæ

- 584.2 **Epigynæ**
 .21 Scitamineæ
 .22 Bromeliaceæ
 .23 Hæmodoraceæ
 .24 Irideæ
 .25 Amaryllideæ
 .26 Taccaceæ
 .27 Dioscoreaceæ
 .3 **Coronariæ**
 .31 Roxburghiaceæ
 .32 Liliaceæ
 .34 Pontederiaceæ
 .35 Philydraceæ
 .36 Xyrideæ
 .37 Mayaceæ
 .38 Commelinaceæ
 .39 Rapateaceæ
 .4 **Calycineæ**
 .41 Flagellariæ
 .45 Juncaceæ
 .5 Palmæ
 .6 **Nudifloreæ**
 .61 Pandaneæ
 .62 Cyclanthaceæ
 .63 Typhaceæ
 .64 Aroideæ
 .68 Lemnaceæ
 .7 **Apocarpeæ**
 .71 Triurideæ
 .72 Alismaceæ
 .74 Naiadaceæ
 .8 **Glumaceæ**
 .81 Eriocaulæ
 .82 Centrolepideæ
 .83 Restiaceæ
 84 Cyperaceæ
 9 Gramineæ
- 585 **Gymnospermæ**
 .1 **Gnetaceæ**
 .2 **Coniferæ**
 .9 **Cycadaceæ**
- 586 **Cryptogamia**
 587 **Pteridophyta**
 .1 **Isoetæ**
 .2 **Equisetæ**
 .3 **Filicinæ**
 .9 **Lycopodinæ**

588 Bryophyta

- .1 Sphagna
- .2 Musci
- .3 Hepaticæ
- .4 Characæ

589 Thallophyta

- .1 Lichenes
 - .11 Basidiolichenes
 - .15 Ascolichenes
 - .16 Angiocarpæ
 - .17 Gymnocarpæ
 - .18 Gelatinosæ
 - .19 Byssacæ
- .2 Fungi
 - .21 Carosporeæ
 - .22 Basidiomycetes
 - .221 Gasteromycetes
 - .222 Hymenomycetes
 - .224 Tremellinæ
 - .225 Uredinæ
 - .227 Ustilagineæ
 - .229 Entomophthoræ
 - .23 Ascomycetes
 - .231 Tuberacæ
 - .233 Discomycetes
 - .235 Pyrenomycetes
 - .238 Gymnoascæ
 - .24 Oosporeæ
 - .25 Peronosporæ
 - .26 Saprolegniæ
 - .27 Zygosporæ
 - .28 Zygomycetes
 - .29 Myxomycetes, mycetozoa
 - .3 Algæ
 - .4 Carosporeæ
 - .41 Floridæ
 - .47 Coleochaetæ
 - .5 Oosporeæ
 - .6 Zygosporæ
 - .61 Conjugatæ
 - .67 Zoosporeæ
 - .7 Protophyta
 - .8 Chlorophyllacæ
 - .9 Achlorophyllacæ
 - .91 Saccharomycetes Yeast
 - .95 Schizomycetes Bacteria Microbes

For other relations see Bacteria in Relativ index following Tables

590 Zoology

590.1 Philosophy, classification .2 Compends .3 Dictionaries .4 Essays,
lectures, etc. .5 Periodicals .6 Societies .7 Study and teaching, zoologic
gardens, aquaria, museums .8 Collectiv works .9 History

591 Physiologic zoology

- .1 **Physiology**
- .11 Circulation
- .12 Respiration
 - .121 Nature
 - .122 Dermal
 - .123 Aquivascular
 - .125 Branchial
 - .126 Tracheal
 - .127 Pulmonary
 - .129 Exhalation of aqueous vapor
- .13 Nutrition
 - .131 Acquisition of food
 - .132 Digestion of food
 - .133 Assimilation of food
 - .134 Growth
 - .135 Development
 - .136 Repair of waste
 - .137 Production of organic material
 - .138 Conditions of nutritiv activity
 - .139 Longevity, vitality
- .14 Secretion and excretion
 - .141 Mucous and sebaceous
 - .142 Sericeous
 - .143 Digestiv: salivary, gastric, pancreatic
 - .144 Odoriferous, sweet, etc.
 - .145 Poisonous, gall formation, caprification
 - .146 Mammary, spermatic
 - .147 Lacrimal
 - .148 Biliary
 - .149 Urinary and fecal
- .15 Variation See also 575.2 Evolution
 - .151 Polymorphic
 - .152 Geografic
 - .153 Heterofagic
 - .154 Polygoneutic
 - .155 Mimetic
 - .156 Sexual
 - .157 Colorational
 - .158 Hybrids
 - .159 Monstrosities

NATURAL SCIENCE

- 591.16 Generation
- .161 Abiogenesis
- .162 Parthenogenesis, neuters
- .163 Metagenesis, pedogenesis, nurses
- .165 Fission and gemmation
- .166 Fecundation
- .167 Hermaphrodites
- .168 Vivipara
- .169 Superfetation
- .17 Histogenesis
- .171 Development of sperm cells
- .172 Development of germ cells, micropyle
- .179 Reparation of wounds
- .18 Nervous functions and sensation
- .19 Physiologic chemistry
- .2 **Pathology**
- .3 **Embryology**
- .33 Development of embryo
- .34 Metamorphosis, larva, pupa, molting
- .35 Hypermetamorphosis
- .36 Production of sexes
- See also 575.9 Origin of sexes
- .4 **Morfology Comparativ anatomy Homologies**
- .41 Circulatory organs
- .42 Respiratory organs
- .43 Nutritory organs
- .44 Secretory and excretory organs
- .45
- .46 Generatory organs
- .47 Motory organs
- .48 Nervous system
- .49 Integument Dermoskeleton Skeleton
- .5 **Habits and behavior**
- Including popular books; animal stories, except fiction
- .51 Instinct Reason
- .52 Abode Migration
- .53 Food
- .54 Seasons Hibernation
- .55 Sociability
- .56 Philoprogenitvness Breeding
- .57 Means of protection Fascination
- .58
- .59 Other habits

- 591.6 **Economic**
- .61 Usefulness
- .62 In nature
- .63 As food and medicin for man
- .64 In chemistry and manufactures
- .65 Noxiousness
- .66 Offensiv animals
- .67 Animals causing diseases [substances
- .68 Injuring vegetable and animal products and inorganic
- .69 Injuring living plants and animals Parasites
- .7 **Organograpy Descriptiv anatomy**
Subdivided like 591.4 Morfology
- .8 **Histology** See also 578.9 Microscopic zoology
- .9 **Geografic distribution of animals**
Subdivide like 930-999, using .92 for ocean, marine fauna

592 Invertebrates

593 Protozoans Radiates

- .1 **Protozoans**
- .11 Rhizopoda
- .12 Foraminifera
- .13 Heliozoa
- .14 Radiolaria Polycystina
- .15 Infusoria
- .16 Flagellata
- .17 Ciliata
- .18
- .19 Gregarinidæ
- .2 **Radiates**
- .3 Coelenterata Acalepha (old use of term, now limited to 593.73)
- .4 Sponges Porifera Spongia
- .5 Cnidaria
- .6 Actinozoa Polyps Corals and sea anemones
- .61 Rugosa Tetracorolla
- .62 Alcyonaria Octocorolla
- .63 Zoantharia Hexacorolla
- .64 Antipatharia
- .65 Actinaria
- .66 Madreporaria
- .7 **Hydrozoa**
- .71 Hydromedusæ
- .72 Siphonophora
- .73 Acalepha
- .74 Calycozoa
- .76 Marsupialida
- .77 Discophora Jelly fish
- .8 Ctenophora Jelly fish

NATURAL SCIENCE

- 593-9 **Echinodermata**
 .91 Crinoidea, sea lilies
 .92 Asteroidea, star fish
 .93 Stelleridea
 .94 Ophiuridea
 .95 Echinoidea, sea urchins
 .96 Holothuroidea, sea cucumbers
 .97 Pedata
 .98 Apoda
 .99 **Enteropneusta**

594 **Mollusks**

- .1 **Lamellibranchiata** **Bivalvs**
 .2 **Scaphopoda**
 .3 **Gastropoda** **Univalvs: snails, slugs** See also 632 Pests
 .4 **Pteropoda** **Wingd shells**
 .5 **Cephalopoda** **Squids and cuttle fish**
 .6 **Molluscoidea**
 .7 **Bryozoa** **(Polyzoa)** **Sea mats**
 .8 **Brachiopoda** **Lamp shells**
 .9 **Tunicata** **(Ascidia)** **Sea grapes**

595 **Articulates**

- .1 **Worms** **Vermes** See also 632 Pests
 .2 **Arthropoda**
 .3 **Crustacea**
 .31 **Entomostraca** **Cyclops, shrimps, etc.**
 .32 **Phyllopoda**
 .33 **Ostracoda**
 .34 **Copepoda**
 .35 **Cirripedia** **Barnacles, etc.**
 .36 **Malacostraca** **Sandbugs, crabs, lobsters, etc.**
 .37 **Arthrostraca**
 .38 **Thoracostraca**
 .39 **Gigantostraca** **Trilobites**
 .4 **Arachnida** **Spiders** **Scorpions** **Mites** See also 632 Pests
 .5 **Onychophora**
 .6 **Myriopoda: centipedes, etc.** See also 632 Pests
 .7 **Insects** **Insecta** **Hexapoda** See also 632 Pests
 .71 **Thysanura: bristletails, springtails, etc.**
 .72 **Orthoptera: grasshoppers, etc.**
 .73 **Pseudoneuroptera: dragon-flies, white ants, etc.**
 .74 **Neuroptera: caddis flies, etc.**
 .75 **Rhynchota: (hemiptera) bugs, etc.**
 .76 **Coleoptera: beetles**
 .77 **Diptera: flies, etc.**
 .78 **Lepidoptera: butterflies, moths**
 .79 **Hymenoptera: bees, wasps, etc.**

596 Vertebrates

597 Fishes Pisces

- .1 Pharyngobranchii Lancelet
- .2 Marsipobranchii Lampreys
- .3 Elasmobranchii Sharks, rays, etc.
- .4 Ganoidei Sturgeons, garpikes, etc.
- .5 Teleostei: true bony fishes
- .6 Batrachia (Amphibia)
- .7 Ophiomorpha
- .8 Anura Toads, frogs
- .9 Urodela Salamanders

598 Reptils Birds

- .1 Reptils
 - .11 Lacertilia Lizards
 - .12 Ophidia Snakes
 - .13 Chelonia Turtles
 - .14 Crocodilia Crocodiles
 - .15 Ichthyopterygia
 - .16 Sauropterygia
 - .17 Anomodontia
 - .18 Pterosauria
 - .19 Dinosauria
- .2 Birds Aves
 - .3 Grallatores, waders
 - .4 Natatores, swimmers
 - .5 Cursores, runners
 - .6 Rasores, scratchers
 - .7 Scansores, climbers
 - .8 Inessores, perchers
 - .9 Raptores, birds of prey

599 Mammals Mammalia

- .1 Monotremata Duckbill platypus
- .2 Marsupialia Kangaroos, opossums
- .3 Edentata Rodentia Insectivora Sloths Rodents
 - Moles
- .4 Cheiroptera Bats
- .5 Cetacea Sirenia Whales, etc.
- .6 Proboscidea Hyracoidea Elephants Hyrax
- .7 Ungulata Carnivora Domestic mammals See also 636
- .8 Quadrumana Apes
- .9 Bimana Man See also 573 Nat. hist. of man; 610 Medicin

Useful Arts

600 Useful arts

601 Filosofy Theories, etc.

602 Compends, outlines

603 Dictionaries, cyclopedias

604 Essays, lectures, addresses

605 Periodicals, magazines, reviews

606 Societies Fairs Exhibitions

Special exhibitions go with their topics. This is general only

607 Education Schools of technology

Divided like 940-999

608 Patents Inventions

609 History of useful arts in general

For its history, see each special department

610 **Medicin**

610.1 Pilosofy, theories .2 Compendis .3 Dictionaries, cyclopedias .4 Essays
 .5 Periodicals .6 Societies .7 Study and teaching .71 Medical schools;
 divided like 940-999 .72 Medical education of women .73 Training schools
 for nurses .77 Medical museums .8 Collections .9 History of medicin

611 **Anatomy**

See also 591.4 Comparativ anatomy; 591.8 Zoologic histology

SUMMARY

- 611.01 Theory
- .012 Teratology
- .013 Embryology
- .014 Anthropologic anatomy
- .016 Paleontologic "
- .018 Histology
- .019 Comparativ anatomy
- .1 Circulatory system
- .2 Respiratory "
- .3 Digestiv "
- .4 Glandular and lymphatic system
- .6 Genito-urinary system
- .7 Motor and integumentary system
- .8 Nervous system
- .9 Regional anatomy

.01

Theory

.0111

Notion, definition, value

.0112

Classification, division

.0114

Terminology

.012

Teratology Anomalies

To be subdivided like revised 617.3 Orthopedic surgery

.013

Ontogeny Embryology

See also physiology, 612.6 Reproduction and development

I

Germinativ cells

II

Sperm

12

Spermatogenesis See also 611.63 Male genital organs

15

Ovum

16

Ovogenesis See also 611.65 Female genital organs

17

Maturation Corpus luteum

2

Copulation Fecundation Fertilization

See also Fecundation, in botany 581.166; in zoology 591.3

3

Germ layers

31

Segmentation Cleavage Blastula

314

Blastula

32

Gastrula

33

Primitiv streak

34

Blastopore Primitiv mouth

35

Archenteron Primitiv gut

36

Neurenteric canal

37

Entoderm, entoblast, hypoblast or endoderm

38

Ectoderm, epiblast or ectoblast

39

Mesoderm or mesoblast

395

Mesenchyme

4

Entodermic, entoblastic or hypoblastic organs

41

Notochord

5

Ectodermic, epiblastic or ectoblastic organs

Epidermal layer

51

Neural furrows, folds and canal or medullary plates

See also 611.8 Nervous system

- 611.0136 Mesodermic organs
- 61 Protovertebrae Mesoblastic somites, or primitiv
vertebrae
- 64 Somatopleure, body wall, or musculocutaneous plate
Outer lamella of lateral plates
- 65 Splanchnopleure, fibrous wall of alimentary canal, or
gut fiber plate
Inner lamella of lateral plates
- 66 Coelom, pleuroperitoneal or body cavity
See also 611.389 Coelom
- 68 Blood or primitiv vessel wall
See also 611.0185 Histology of blood
- 7 External form of embryo
- 8 Fetal appendages
- 81 Vitellin sac
- 82 Allantois
- 83 Amnion
- 835 Amniotic fluid
- 84 Chorion
- 85 Placenta Umbilic cord
- 9 Experimental embryology
- .014 Anthropologic anatomy
See also 572 Anthropology
- .016 Paleontologic anatomy
See also 560 Paleontology
- .018 Histology
Microscopic structure of organs
- I Cells Cytology
See also 576.3 Cytology For special cells see tissues to which
they belong
- 11 Protoplasm
- 13 Nucleus
- 15 Cell division See also 611.01331
- 16 Centrosome
- 18 Cilia Cellular membrane
- 2 Connectiv tissue
Connectiv, cartilage and bone tissue together known as 'sup-
porting tissues'
- 21 Connectiv tissue cells
- 22 Connectiv tissue fibers
- 23 Ground substance or matrix
- 24 Reticular and adenoid tissue
Areolar or interstitial tissue Reticulum
- 25 Mucous or gelatinous tissue Mesenchyme
See also embryology, 611.013395 Mesenchyme
- 26 Adipose or fat tissue
- 27 Elastic or yellow fibrous tissue
- 28 Fibrous or white fibrous tissue
- 29 Pigment and pigment cells
- 3 Cartilaginous tissue
True or hyalin cartilage, cartilage cells or chondroblasts For
Elastic, yellow fibrocartilage, or reticular cartilage see
611.01827; for Fibrocartilage, fibrous or white fibrocartilage
see 611.01828
- 34 Perichondrium

611.0184	Bone or osseous tissue
41	Bone cells Osteoblasts Osteoclasts Howship's lacunae Myelo- plaques of Robin
43	Ground substance or matrix Spongiosum, spongy substance, or cancellated or spongy bone Compact substance Structure: lacunae, canaliculi, lamellae, Haversian canals Volkmann's canals
44	Periosteum Osteogenetic layer or cells; fibers of Sharpey
46	Bone marrow or medulla
5	Blood See also physiology, 612.11 Blood For sperm, see 611.01311 and 612.616
57	Lymf See also 612.42 Lymphatic system
6	Muscular tissue Sarcoplasm
61	Smooth, unstriped, unstriated or involuntary muscle
62	Striped, striated or voluntary muscle Sarcolemma
63	Cardiac muscle
64	Histology of muscular contraction
7	Epithelial tissue
72	Glandular system
73	Mucous membranes
74	Serous " Endothelia
8	Nervous tissue
81	General structure Tectology Neurone
	Regeneration
82	Nerv cells Protoplasm: Nissl's bodies; reticular, fibrillar, and canalicular structures; pigment. Nucleus. Centrosome. Cell membrane and division
83	Prolongations and nerv fibers Cylinder-axis process; cylinder axis. Appendixes, varicosities
833	Neurilemma Schwann's sheath
834	Myelin Ranvier's nodes Medullary sheath
835	Adventitious sheath, perineurium Epineurium Endoneurium
837	Dendrites
84	Neuroglia Ependymal cells, amyloids
86	Terminations
861	Motor terminations
866	Sensory "
.019	Comparison with anatomy of lower animals Usually better clast in 591.4
	Form divisions
.02	Compendis
.03	Dictionaries Cyclopedias
.04	Essays Addresses
.05	Periodicals
.06	Societies Clubs

611.07	Teaching	Methods
.072	Laboratories	Dissection
.077		Pedagogic methods
.078	Instruments	Apparatus
.08	Polygrafy	
.09	History	
.I	Circulatory system	
.I I	Pericardium	
.I 2	Hart	
.122	Left hart	
.123.	Right hart	
.I24	Ventricles	
	2 Right	5 Left
.I25	Auricles	
	2 Right	5 Left
.I26	Endocardium	
3	Valvs	
4	Auriculoventricular valvs	
42	Mitral or bicuspid valvs	
46	Tricuspid valvs	
5	Valvs of aorta and of pulmonary artery	
	Sinuses of Valsalva	
52	Aortic valvs	
56	Pulmonary or semilunar valvs	
6	Valvs of right auricle	
	2 Eustachian	5 Coronary
.I27	Myocardium	
.I3	Arteries	
.I31	Pulmonary artery	
	2 Right branch	5 Left branch
.I32	Aorta	
1	Aortic arch	Ascending aorta
2	Coronary arteries	
	2 Right	5 Left
5	Innominate artery	
.I33	Carotid arteries	
1	Common carotid	
2	External "	
21	Superior thyroid	
22	Lingual	
23	Facial, or external maxillary	
24	Ascending pharyngeal	
25	Posterior auricular	
26	Occipital	
27	Superficial temporal	
28	Internal maxillary	
281	Sphenopalatin arteries	
289	Middle or great meningeal	
3	Internal carotid	
32	Ophthalmic artery	
33	Cerebral arteries, anterior and middle	
	For posterior cerebral artery see 611.1349	

- 611.134 Subclavian arteries**
- 1 **Axillary**
Superior thoracic, acromiothoracic, long thoracic or external mammary, alar thoracic, subscapular, posterior and anterior circumflex
- 2 **Brachial or humeral**
Superior and inferior profunda, nutrient, anastomotica magna, muscular
- 3 **Forearm arteries**
- 31 Radial
- 35 Ulnar
- 4 **Hand arteries**
- 5 **Internal mammary** Superior epigastric
- 6 **Costocervical trunk**
- 7 **Thyrocervical trunk**
- 8 **Posterior, or dorsal scapular, transversa colli**
- 9 **Vertebral** Basilar, posterior cerebral, circle of Willis
- .135 Thoracic aorta and branches**
- 1 **Parietal branches**
- 4 **Intercostal** "
Subcostal, diaframatic, vas aberrans
- 5 **Visceral branches**
Bronchial, esophageal, pericardial, mediastinal
- .136 Abdominal aorta and branches**
- 1 **Inferior frenic**
- 2 **Lumbar**
- 3 **Middle sacral; caudal**
- 4 **Celiac axis**
Celiac mesenteric, umbilic mesenteric or cmphalomesenterica
- 41 **Hepatic**
Pyloric, gastroduodenal, superior pancreaticoduodenal, right gastro-epiploic, cystic
- 42 **Splenic, lienalis**
Pancreatic, vasa brevia, left gastro-epiploic
- 43 **Left gastric, gastric, or coronary gastric**
- 5 **Mesenteric**
- 51 **Superior mesenteric**
Rami intestini tenuis, or branches of small intestine; inferior pancreaticoduodenal; middle, right and ileocolic; terminal and appendicular branches
- 52 **Inferior mesenteric**
Left colic, sigmoid, superior hemorrhoidal
- 6 **Middle suprarenal**
- 7 **Renal**
- 8 **Spermatic**
- 9 **Ovarian**
- .137 Iliac arteries**
- 1 **Common iliac**
- 2 **Hypogastric, or internal iliac**
- 3 **Parietal branches**
- 4 **Lateral sacral**
- 5 **Obturator**

611.1376

Gluteal

- 61 Superior gluteal
- 65 Inferior gluteal Sciatic

Visceral branches

- 71 Umbilic, superior vesical
- 72 Inferior vesical and deferential
- 73 Uterin and vaginal
- 74 Middle hemorrhoidal
- 75 Internal pudic

External iliac artery

- 81 Inferior epigastric, or deep epigastric
- 82 Deep circumflex iliac
- 83 Femoral
- 84 Deep femoral, profunda femoris
 - 2 External circumflex
 - 5 Internal circumflex
- 85 Arteria genu suprema, or anastomotica magna
- 86 Popliteal
- 87 Anterior tibial
- 9 Tibiofibular trunk, truncus tibioperoneus
- 91 Posterior tibial
- 92 Peroneal
- 93 Arteries of foot
- 94 Dorsalis pedis
 - Tarsal, metatarsal, dorsal interosseous, dorsalis hallucis
- 95 Plantar

Veins

- .14
- .141 **Pulmonary**
- .142 **Cardiac or venae cordis**
- .143 **Subintestinal, or fetal portal vein**
- .144 **Cardinal**
- .145 **Superior vena cava**
 - Innominate veins Veins of neck
- 1 **Internal jugular vein**
 - Thyroid veins
- 11 **Cerebral veins** Sinuses of dura mater
- 13 Emissary vein
- 15 **Superior ofthalmic**
- 16 **Inferior** "
- 17 **Facial**
- 2 **External jugular**
- 3 **Posterior external jugular and vertebral**
- 4 **Subclavian and axillary**
- 41 **Deep veins of upper extremity**
- 46 **Superficial veins of upper extremity**
 - 2 Basilic
 - 5 Cephalic
- 6 **Azygos**
- 7 **Spinal veins**

- 611.146 **Inferior vena cava**
- 1 Lumbar veins
 - 2 Renal "
 - 3 Suprarenal "
 - 4 Hepatic "
 - 5 Inferior frenic
 - 6 Spermatic
 - Pampiniform or spermatic plexus
 - 7 Ovarian
- .147 **Iliac veins**
- 1 Hypogastric or internal iliac
 - Hemorrhoidal plexus
 - 2 External iliac
 - 3 Femoral Popliteal
 - 33 Long, or internal saphenous
 - 37 Tibial veins
 - 38 Short, or external saphenous
 - 39 Veins of foot
- .149 **Portal vein**
- 1 Superior mesenteric
 - 2 Inferior "
 - 3 Ventricular coronary, gastric, or venae gastricae Pyloric
 - 4 Splenic, or lienalis
 - 5 Cystic
 - 7 Fetal hepatic veins Omphalomesenteric
 - Ductus venosus Aranzii, or sinus venosus, large vein, passing directly thru fetal liver
 - 8 Umbilic
- .15 **Capillaries**
- .2 **Respiratory system**
- .21 **Nose**
- See also 611.86 Organs of smell
 - .211 External nose
- .22 **Larynx**
- .221 **Cartilages**
- Epiglottis, thyroid, arytenoid, cuneiform, cornicular
 - .223 False vocal cords
 - .224 Ventricles
- .225 **Cavity of larynx** **Glottis**
- True vocal cords Rima glottidis or chink of glottis
 - .227 Ligaments
- .229 **Muscles of larynx**
- .23 **Trachea and bronchi**
- .231 **Trachea**
- .233 **Bronchi**
- See also 611.24 below
- .24 **Lungs, or pulmones**
- .25 **Pleura**
- .26 **Diafram**
- .27 **Mediastinum**
- .28 **Gills**
- See comparativ anatomy, 591.42 Respiratory organs
- .29 **Other organs, including air bladder swimming bladder** See 591.42

611.3 Digestiv system

.31 Mouth, buccal cavity or cavum oris

.313 **Tung**

Papillae

.314 **Teeth**

.315 **Palate, palatum, or roof of mouth** Soft palate, or
velum pendulum palati Uvula

.316 **Salivary and other glands of mouth**

Submaxillary and sublingual glands

Parotid glands Stenson's duct

.317 **Lips**

.318 **Cheeks**

.32 **Pharynx Esofagus**

.321 **Pharynx**

.322 **Tonsils**

.323 Faucial tonsils

.324 Pharyngeal or Luschka's tonsils

.325 Lingual, buccal or 4th tonsil

.326 Other tonsils: laryngeal, nasal

.327 **Topograpy or regions of pharynx**

Nasal or epipharynx

Oral, buccal, or meso pharynx

Laryngeal or hypo pharynx

Back

Sides

.329 **Esofagus**

1 Cervical 2 Thoracic section 3 Abdominal section
including diaframatic

.33 **Stomach**

Gastric glands: true, oxyntic or peptic; pyloric; cardiac

.333 Cardia

.334 Pylorus

.335 Greater curvature, or lower convex surface

.336 Lesser " " upper concave "

.34 **Intestin**

.341 **Small intestin**

2 Meckel's diverticulum

3 Peyer's patches, or tonsillae intestinales

4 Plicae circulares

5 Glands of Lieberkühn and solitary glands

.342 Duodenum Brünner's glands

.343 Jejunum

.344 Ileum

.345 **Cecum**

Ileocecal valv

Vermiform appendix

.347 **Large intestin**

Including cecum Appendices epiploicae

.348 **Colon**

Ascending

Transverse

Descending

Sigmoid flexure

.349 **Rectum Anus**

.351 Rectum Houston's or rectal valvs

.352 Anus

.353 Perineum See also 611.96

611.36

Liver

- .361 **Bile ducts** **Bile capillaries or canaliculi**
- .362 Hepatic duct
- .366 Cystic duct Gall bladder
- .367 Common bile duct, or ductus communis choledicus
- Process and ampulla of Vater

.37

Pancreas

- .373 Pancreatic duct, or canal of Wirsung
- .375 Duct of Santorini
- .376 Glandular portion
- .377 Interleolar cell-islets, intertubular cell masses, islands of Langerhans

.38

Peritoneum Mesentery Omentum Coelom

.381

Peritoneum

- 2 Parietal 5 Visceral
- .382 Omentum, epiploon
- Lesser or gastrohepatic, great or gastrocolic, gastrosplenic
- .383 Mesentery
- Transverse and sigmoid mesocolon; mesorectum; mesoappendix
- .384 Retroperitoneal fossae
- .389 Coelom or pleuroperitoneal cavity

.39

Adipose bodies

.4

Glandular and lymphatic system

Put glands of any special system with that system. See 611.36, Liver; 611.61, Kidneys; 611.316, Salivary glands; 611.69, Mammary glands. But class here chromaffin tissue in general

.41

Spleen

- .415 Malpighian bodies
- .418 Capsule of spleen

.42

Lymphatic vessels or lymphatics and capillaries

For lymphatics of an organ or tissue, see name of organ or tissue
Lymphatic spaces

.421

Lymphatics by region

- 1 Head
- 2 Face
- 3 Neck
- 4 Thorax
- 5 Abdomen
- 6 Pelvic region
- 7 Upper extremity
- 2 Arm 4 Forearm 6 Hand
- 8 Lower extremity
- 2 Thigh 4 Leg 6 Foot
- 9 Tail

.423 Receptaculum chyli or cistern of Pecquet

.424

Thoracic duct (left)

.425

Right lymphatic duct

.426

- Lacteals
- 5 Villi

.43

Thymus

- .435 Accessory thymus

.44

Thyroid gland

- .445 Accessory or aberrant thyroids
- .447 Parathyroids

.45

Suprarenal capsules or bodies

Accessory suprarenal capsules

611.46

Lymfatic glands

- .461 Glands of head
- .462 " " face
 - Internal maxillary Submental
- .463 Glands of neck
 - 1 Suboccipital or occipital
 - 2 Mastoid, retroauricular or postauricular
 - 6 Retropharyngeal
 - 7 Cervical or jugular
 - 8 Subclavian
- .464 Glands of thorax
 - 1 Diaframatic
 - 2 Mammary lymf
 - 3 Intercostal
 - 4 Mediastinal
- .465 Abdominal lymf glands
 - 1 Iliac and hypogastric: sacral, lumbar
 - 2 Abdomino-aortic
 - 21 Juxta-aortic
 - 22 Preaortic: gastric, splenic, hepatic
 - 23 Retroaortic
 - 4 Glands of small intestin: mesenteric
 - 6 Glands of large intestin: colic, rectal
- .467 Lymf glands of upper extremity
 - 1 Axillary
 - 2 Epitrochleal or supratrochleal and other glands
 - 5 Pectoral
- .468 Lymf glands of lower extremity
 - 1 Inguinal
 - 2 Femoral
 - 3 Popliteal
 - 4 Anterior tibial

.47 Carotid gland or body

.48 Coccygeal gland

.6 Genito-urinary system **Brests**

.61 Kidneys

Class here urinary organs in general

.615 Uriniferous tubules

.617 Ureter

.618 Pronephros

.619 Mesonephros

.62 Bladder Urethra

.621 Bladder

3 Urethral openings

.622 Ligaments: urachus

For pedicle of allantois see also embryology, 611.01382

.623 Urethra

For female urethra see 611.674

- 1 Prostatic part
 - Verumontanum or caput gallinaginis
 - Sinus pocularis or uterus masculinus
- 2 Membranous part
- 3 Spongy, cavernous or penial part
- 4 Lacunae Littre's glands
- .627 Bulbo-urethral or Cowper's glands
- .629 Urogenital sinus

611.53

Male genital organs

- .631 Testicles or testes
 1 Seminiferous tubules
 Straight tubules, tubuli recti or vasa recta; coni vasculosi or vasa efferentia
 3 Tunics of testes: vaginalis, albuginea, vasculosa
 5 Mediastinum testis or Highmore's body; rete testis of Haller or Haller's network
 .632 Epididymis
 .633 Appendixes of testes
 Vasa aberrantia; hydatids of Morgagni, or pedunculated bodies; paradidymis or organ of Giraldès
 .634 Vas deferens
 .635 Ejaculatory ducts
 .636 Seminal vesicles
 .637 Prostate
 .638 Scrotum
 4 Dartos
 .639 Spermatic cord
 Infundibula; intercolumnar or spermatic and cremasteric fascia

.64

Penis

- .641 Root
 .642 Body Prepuce
 .643 Glans penis, or acorn
 .644 Meatus
 .645 Corpora cavernosa
 .646 Corpus spongiosum
 .647 Bulb of urethra

.65

Female genital organs

Adnexa

- .651 Ovaries
 1 Medullary substance Stroma
 2 Graafian follicles
 Capsule of ovum, membrana granulosa, discus proligerus
 3 Cortical layer
 .652 Corpus luteum or corpora lutea
 See also embryology 611.01317
 .656 Fallopian tubes
 .66 Uterus
 .662 Endometrium
 .664 Cornua
 .665 Body or parenchyma
 .666 Neck, cervix
 .667 Ligaments
 For placenta see embryology, 611.01385 and gynecology 618.36
 2 Broad or lateral
 3 Round Canal of Nuck
 4 Uterosacral and uterolumbar Pouch of Douglas
 Posterior ligaments
 6 Epoophoron, parovarium, or organ of Rosenmüller Gärtner's duct
 7 Paroophoron
 .669 Müller's duct Oviducts of lower vertebrates
 Class oviducts of lower vertebrates in 591.46 except in com-
 with human organs

.67

Vagina

Vulva

- .671 Vagina
 .672 Hymen Vestibulum
 .673 Vulva
 1 Mons veneris 2 Labia majora 3 Labia minorae
 .674 Female urethra
 .675 Clitoris Bulbus vestibuli
 .677 Bartholini's, or vulvo-vaginal glands

.69

Breasts

- .691 Nipple and areola Glands of Montgomery
 .692 Acini, acinous glands
 .263 Galactiferous or lactiferous ducts

611.7 Motor and integumentary systems

.71 Osteology Bones Skeleton

.711 Spinal column

- 1 Cervical vertebrae
- 2 Atlas
- 3 Axis or epistropheus
- 5 Thoracic or dorsal vertebrae
- 6 Lumbar vertebrae
- 7 Sacrum or sacral vertebrae
- 8 Coccyx

.712 Ribs Thorax

- 5 Costal cartilages

.713 Sternum or breast bone

Manubrium; gladiolus; xiphoid or ensiform

.714 Bones of head Skull

- 1 Calvaria or cerebral cranium
 - Sutures, fontanelles, supernumerary or Wormian bones
- 3 Base of cranium
- 6 Orbits
- 7 Nasal cavity Inferior conchae

.715 Cranium, cranial bones

- 1 Occipital
- 2 Sphenoid
- 3 Temporal
- 4 Parietal
- 5 Frontal
- 6 Ethmoid
- 7 Lacrimal
- 8 Nasal
- 9 Vomer

.716 Bones of face or visceral cranium

- 1 Maxillary, upper jaw or superior maxillary
- 2 Palate
- 3 Malar or zygomatic
- 4 Mandible, lower jaw or inferior maxillary
 - 41 Alveolar limbus
 - 43 Ramus of mandible
- 5 Hyoid
- 6 Skeleton branchiae Better class in 591.4

.717 Bones of upper extremity

- 1 Scapula, shoulder blade
 - Shoulder girdle as a whole Acromion
- 2 Clavicle or collar bone
- 3 Coracoid process
- 4 Humerus
- 5 Radius
- 6 Ulna
- 7 Carpus, carpal bones or wrist bones
 - 71 Scaphoid or navicular
 - 72 Semilunar, or os lunatum
 - 73 Cuneiform, or os triquetrum
 - 74 Pisiform
 - 75 Trapezium, or os multangulum majus
 - 76 Trapezoid or " " minus
 - 77 Os magnum, or os capitatum
 - 78 Unciform or hook or os hamatum
 - 79 Central
- 8 Metacarpus, metacarpal bones

- 611.7179
 91 Basilar or proximal phalanges
 93 Middle phalanges
 95 Ungual or distal phalanges
 99 Sesamoid
- .718 Bones of lower extremity**
 For pelvis see 611.96
- 1 Hip bone, or os coxae or innominatum**
 Acetabulum or cotyloid cavity
- 11 Ilium
 12 Ischium
 13 Pubis
- 4 Femur**
 45 Patella See also 611.7283 Knee joint and 611.983 Knee
- 5 Tibia**
0 Fibula
- 7 Tarsus**
 71 Astragalus, ankle bone, or talus
 73 Calcaneum, heel, or os calcis
 75 Cuboid
 76 Scaphoid or navicular
 78 Cuneiform or wedge bones
 Internal or first, middle or second, external or third cuneiform
- 8 Metatarsal bones**
- 9 Phalanges of foot**
 91 Basilar or proximal phalanges
 93 Middle or second
 95 Ungual or third
 99 Sesamoid bones
- .72 Ligaments Joints**
- .721 Articulations of vertebrae and of cranium**
 1 Occipito-atlantal and occipito-axial
 3 Intervertebral articulations
 5 Atlanto-axial or atlo-axoid and atlanto-odontoid
 6 Lumbosacral
 7 Sacrococcygeal
 8 Coccygeal
- .722 Costovertebral articulations**
- .723 Costosternal, costochondral, chondrosternal, interchondral, intersternal**
- .724 Jaw joint, temporomandibular, temporomaxillary or mandible joint**
- .727 Articulations of upper extremity**
- 1 Sternoclavicular joint and costoclavicular or rhomboid ligament**
- 2 Articulations of shoulder**
 21 Shoulder joint
 24 Acromioclavicular or scapuloclavicular joint Coracoclavicular and coracacromial ligaments
- 3 Elbow joint**
 31 Humeroulnar joint
 33 Humeroradial joint
 34 Superior radioulnar or radioulnaris proximalis
- 4 Wrist joint**
 41 Inferior or distal radioulnar joint
 44 Radiocarpal

611.7275

Intercarpal articulation

- 54 Middle carpal joints
- 6 Carpometacarpal articulations
- 7 Intermetacarpal "
- 8 Metacarpophalangeal "
- 9 Phalangeal or finger joints

.728

Articulations of lower extremity

- 1 Articulations of pelvis
 - Sacroiliac and pubic, or symphysis ossium pubis; sacrosciatic ligament or symphysis sacrococcygea
- 2 Hip joint, or articulo coxae
 - Iliofemoral, Y or Bigelow's ligament; ligamentum teres
- 3 Knee joint
 - 31 Crucial or femorotibial ligaments
 - 33 Semilunar fibrocartilages
 - 34 Anterior or ligamentum patellae
 - 38 Tibiofibular ligaments
- 4 Ankle joint
 - 41 Inferior tibiofibular joint
 - 44 Tibiotarsal ligaments
- 5 Intertarsal ligaments
 - 51 Astragalocalcaneal, calcaneostragaloid or talocalcaneum; astragaloscaphoid; calcaneoscaphoid or calcaneonavicular ligaments
 - 53 Calcaneocuboid ligaments
 - 54 Mediotarsal articulations
 - 55 Cuboidcuneiform "
 - 56 Scaphoidcuboid or cubonavicularis, scaphoidcuneiform or cuneonavicularis articulations
 - 58 Intercuneiform articulations
- 6 Tarsometatarsal articulations
- 7 Intermetatarsal "
- 8 Metatarsophalangeal "
- 9 Toe joints

.729

Classes of joints

- 2 Synarthrosis or fixt joint
- 4 Amphiarthrosis or mixt joint
- 6 Diarthrosis or movable joint
 - 61 Arthrodia or gliding joint
 - 62 Condylarthrosis or knuckle joint
 - 63 Enarthrosis or ball and socket joint
 - 64 Ginglymus or hinge joint
 - 65 Trochoid or pivot joint

.73

Muscular system Myology

.731

Dorsal muscles

- 1 Spinohumeral or humerospinal muscles
 - 11 Trapezius
 - 12 Latissimus dorsi
 - 13 Rhomboid
 - 14 Levator scapulae
- 2 Spinocostal or serrati posteriores
- 3 Spinodorsal
 - Sacrospinalis, lumbosacral, erector spinae, transversalis cervicis
 - 31 Iliocostal
 - 36 Longissimus dorsi
- 4 Splenius and complexus

- 611.7315 Spinalis dorsi
 6 Transversospinales
 61 Semispinalis
 65 Multifidus
 68 Rotatores
 7 Breves spinae
 71 Interspinales
 76 Intertransversarii
 8 Oblique muscles of head
 9 Recti capitis posterior and lateralis
- .732 Muscles of head**
 See also 611.7318-9 and 611.7337-8
 1 Platysma myoides
 2 Occipitofrontalis or epicranial
 3 Muscles of nose
 Pyramidalis nasi, compressor nasi, compressor narium minor,
 depressor alae nasi or myrtiliform, dilatores nasi
 4 Muscles of ear Attrahens, attollens, retrahens
 5 Palpebral and orbital muscles of eye
 Orbicularis palpebrarum, or sphincter of eyelids; corrugator super-
 cillii; levator palpebrae; levator palpebrae superioris; tensor tarsi
 See also 611.8461
 6 Buccal muscles
 Buccinator, orbicularis oris, levator anguli oris, levatores labii
 superioris, levator labii superioris alaeque nasi, zygomatic, levator
 labii inferioris, levator menti, depressor labii inferioris or quadratus
 menti; depressor angulae oris or triangularis menti; risorius, or
 Santorini's muscle
 7 Muscles aiding mastication and deglutition
 71 Masseter
 72 Temporal
 73 Pterygoid
 75 Muscles of palate and pharynx
 76 Palate
 Levator palati, tensor palati, azygos uvulae, palatoglossus, pala-
 topharyngeus, salpingopharyngeus
 78 Pharynx
 Inferior, superior and middle constrictors, stylopharyngeus
- .733 Muscles of neck**
 1 Sterno-cleido-mastoid
 2 " hyoid
 3 Omohyoid
 4 Sternothyroid
 5 Thyrohyoid
 6 Longus colli
 7 Rectus capitis anticus major, or longus capitis
 8 Rectus capitis anticus minor, or rectus capitis anterior
 For rectus capitis lateralis see 611.7319
 9 Scaleni: anticus, medius and posticus
- .734 Hyoid muscles**
 Depressors of lower jaw or elevators of hyoid. For tongue see 611.313
 1 Digastric
 4 Stylohyoid
 6 Mylohyoid
 8 Geniohyoid

611.735

Thoracic muscles

- 1 Pectoralis major
- 2 " minor
- 3 Subclavius
- 4 Levatores costarum
- 5 Serratus magnus or serratus anterior
- 6 Intercostal
- 7 Subcostal
- 8 Transversus thoracis or triangularis sterni

.736

Abdominal and coccygeal muscles

- 1 Rectus abdominis
- 2 Pyramidalis abdominis
- 3 Oblique abdominal
- 6 Cremaster
- 7 Transversalis or transversus abdominis
- 8 Quadratus lumborum
- 9 Coccygeal

.737

Muscles of upper extremity

- I Shoulder or axillary
 - 11 Deltoid
 - 12 Supraspinatus
 - 13 Infraspinatus
 - 14 Teres minor
 - 15 Teres major
 - 16 Subscapular
- 2 Arm
 - 21 Biceps brachii, or biceps flexor cubiti
 - 22 Coracobrachialis
 - 23 Brachialis (anticus)
 - 24 Triceps brachii, or triceps extensor cubiti
 - 25 Anconeus
- 3 Forearm
 - 4 **Pronator muscles**
 - 41 Pronator radii teres
 - 45 " quadratus
 - 5 **Flexors of forearm**
 - 51 Flexor carpi radialis
 - 52 Palmaris longus
 - 53 Flexor carpi ulnaris
 - 54 " digitorum sublimis
 - 55 " " profundus
 - 56 " pollicis longus
 - 6 **Extensors and supinators**
 - 61 Brachioradialis
 - 62 Extensor carpi radialis longus
 - 63 " " " brevis
 - 64 " " ulnaris
 - 65 Extensors of fingers, or extensores digitorum
 - 66 Supinator
 - 67 Abductor pollicis longus
 - 68 Short and long extensors of thumb, or extensores pollicis brevis et longus
 - 69 Extensor of index finger, or extensor indicis proprius
- 7 Muscles of hand
 - 71 Lumbricales
 - 72 Palmaris brevis
 - 73 Short abductor of thumb, or opponens pollicis
 - Short flexor of thumb, or flexor brevis pollicis. Adductor pollicis
 - 76 Muscles of little finger
 - Abductor digiti quinti (or minimi) brevis; opponens digiti quinti;
 - short flexor of 5th or little finger, or flexor brevis digiti minimi
 - 79 Interosseous muscles

611.738

Muscles of lower extremity

- 1 Hip and nates
- 11 Iliopsoas
- 12 Iliacus
- 13 Psoas major and minor
- 14 Gluteal
- 15 Tensor fasciae latae, tensor fasciae femoris or tensor vaginae femoris
- 16 Piriformis
- 17 Obturator internus
- 18 Gemelli or gemini
- 19 Quadratus femoris
- .7382 **Thigh muscles**
- 21 Sartorius
- 22 Quadriceps femoris or quadriceps extensor femoris
 - Rectus femoris, vastus externus, vastus internus and crureus or vastus intermedius
- 225 Articularis genu, or subcrureus
- 23 Pectineus
- 24 Adductors: longus, brevis, magnus and minimus
- 25 Gracilis
- 26 Obturator externus
- 27 Biceps femoris or biceps flexor cruris
- 28 Semitendinosus
- 29 Semimembranosus
- 3 **Leg**
- 4 **Anterior muscles**
- 41 Anterior tibial or tibialis anticus
- 42 Extensor digitorum longus
- 43 " hallucis " or proprius
- 46 Peroneus tertius
- 5 **Other muscles of leg**
- 51 Peroneus longus
- 52 " brevis
- 53 Gastrocnemius
- 54 Soleus, triceps surae
- 55 Plantaris
- 56 Popliteus
- 57 Posterior tibial
- 58 Flexor digitorum longus
- 59 " hallucis "
- 7 **Muscles of foot**
- 8 **Back of foot**
- Extensor brevis digitorum
- Sole of foot or plantar region
- Adductor hallucis (obliquus and transversus), adductor digiti minimi, abductor hallucis; flexor hallucis brevis, flexor digitorum brevis, flexor accessorius, flexor digiti minimi brevis, lumbricales, interosseous muscles
- .739 Electric organs Better clast in comparativ anatomy
- .74 **Tendons Fasciae**
- May be divided like 611.73; e. g. Achilles tendon 611.74854
- .75 **Bursae Sheaths of tendons**
- .751 **Hed**
- .752 **Neck**
- .753 **Back**
- .754 **Shoulder**
- .757 **Upper extremity**
- .758 **Lower "**
- .76 **Connectiv tissue** See also 611.0182 Histology of connectiv tissue

- 611.77 Skin Glands of skin
 .771 Cuticle, scarf skin or epidermis
 Horny and Malpighian layers
 .772 Glands of skin
 .773 Sebaceous
 .774 Sudoriferous or sweat
 .775 Ciliary glands
 .776 Circumanal "
 .777 Ceruminous "
 .778 Corium, cutis vera, true skin or dermis
 Reticular and papillary layers
 5 Pigmentation
 .779 Subcutaneous areolar tissue, tela subcutanea or paniculus adiposus
 .78 Hair, nails, scales, fethers, etc.
 For teeth see 611.314 Fur, scales, fethers, horns, etc. better clast in
 comparativ anatomy
 .781 Hair
 .785 Scales
 .786 Nails
 .787 Fethers
 .788 Horns
- .8 Nervous system Sense organs
 .81 Encephalon Brain
 Mesurement Weight
 .811 General structure of brain and cerebrospinal axis
 .812 Localizations
 .813 Telencephalon, or endbrain Prosencephalon, or fore-
 brain Hemisferes
 Longitudinal and transverse fissure
 I Pallium, brain mantle or cerebral cortex
 II Frontal lobe
 Broca's convolutions
 17 Parietal lobe Central fissure, sulcus centralis, or
 Rolando's groove
 Opercula insulae
 13 Temporal or temporosphenoid lobe Fissure of Sylvius,
 or fissura cerebri lateralis
 14 Limbic lobe Gyrus fornicatus
 Hippocampal gyre, or gyrus hippocampi Callosal gyre
 Dentate gyre, or fascia dentata hippocampi Fasciola Fim-
 bria, taenia fornicis or taenia hippocampi Hippocampus
 major or cornu ammonis Dentate fissure, hippocampal
 sulcus, or subiculum cornu ammonis Callosomarginal fissure
 Amygdala, almond nucleus, or amygdaloid tubercle
 15 Occipital lobe
 Occipital or parieto-occipital fissure
 16 Paracentral gyre or lobule
 17 Cuneus Calcarin fissure
 18 Precuneus, or quadrate lobe
 19 Insula, iland of Reil, central lobe, or gyri operti
 2 Striatum, striate body, or corpus striatum
 Basal ganglion of hemisphere
 21 Caudatum, taild nucleus, or nucleus caudatus
 22 Lenticula, lenticular nucleus, or nucleus lentiformis
 Globus pallidus, or pallidum, and putamen
 23 Claustrum
 25 Tenia, taenia semicircularis, stria terminalis or corneae

DECIMAL CLASSIFICATION

- 611.8133 **Rhinencephalon or rhinencefal**
 Olfactory bulb tract, substantia perforata anterior, precirbrum, etc.
 Broca's area, or parolfactoria
- 7 **Centrum ovale majus (of Vieussens) Centrum semiovale Internal capsule**
- 8 **Paraceles or lateral ventricles**
- 9 **Callosum or corpus callosum Fornix**
 Septum pellucidum or lucidum, or septum Cavum septi pellucidi,
 5th ventricle or pseudocele
- .814 Diencephalon, diencefal, thalamencephalon or interbrain**
- 1 **Hypothalamus or subthalamic tegmental region**
 Nucleus of Luys or nucleus hypothalamicus
 Postcommissure or posterior commissure
- 2 **Corpora albicantia, albicans, or corpus mammillare**
 Bundle of Vicq-d'Azyr, or fasciculus thalamomammillaris
- 3 **Hypophysis**
 Hypophysis cerebri, pituitary body or somatic brain
 Tuber or tuber cinereum Infundibulum
- 4 **Optic tract Optic chiasm or commissure**
- 5 **Epithalamus Pinea, pineal body, conarium or epiphysis Habenula, habena, or pedunculus conarii**
- 6 **Geniculate bodies, or geniculum Metathalamus**
- 7 **Thalamus or optic thalamus**
 Thalamic radiation: ansa peduncularis, ansa lenticularis
 For Nissl's bodies see 611.01882
- 8 **Third ventricle, or diacele**
 Porta or foramen of Monro, or foramen interventriculare
- .815 Mesencephalon, midbrain or mesencefal**
- 3 **Quadrigenium**
 Corpora or tubercula quadrigemina Quadrigeminal arms
- 4 **Pedunculi or crura cerebri, crura or crus**
- 41 **Substantia nigra (Sömmering) or intercalatum**
 See also nucleus of Luys 611.8141
- 42 **Foot of peduncle, basis or pes pedunculi, or crusta**
- 43 **Tegmentum**
- 44 **Red nucleus, nucleus ruber, or rubrum**
- 5 **Nuclei of oculomoto and trochlear nervs**
- 6 **Aqueduct of Sylvius, aqueductus cerebri, or mesocele**
- .816 Isthmus rhombencephali**
- 3 **Valv of Vieussens, or superior medullary velum**
- 4 **Superior cerebellar peduncles**
 Prepeduncles, brachium conjunctivum cerebelli, or crura ad cerebrum
 Lemniscus: mesial and lateral fillets

611.817

**Metencephalon or epencephalon, epencefal or hindbrain
Pons (Varolii)**

- 1 Cerebellum
 - 11 Lobes, fissures, valv of Tarinus, velum medullare posterius, or kilos
 - 13 Cerebellar centers of gray matter Nuclei olivaris superiores: roof nuclei, dentate nuclei, dentatum, etc.
 - 15 White substance of cerebellum Arbor vitae
- 3 Pons Varolii Tegument For reticula see 611.8226
- 4 Nuclei of trigeminus system
 - 41 Nucleus motorius or motor nucleus of 5th nerv
 - 42 Nucleus of spinal tract or sensory nucleus of 5th nerv
- 5 Nucleus or nidus of abducent nerv
 - 6 " " " " facial nerv
 - 68 Salivary nucleus
- 7 Cochlear nidi or nucleus of cochlear nerv
 - Ventral root of 8th nerv
 - 76 Trapezium or trapezoid body
 - 77 Nucleus of superior olivary body
 - 78 Acoustic striae, striae acusticae or medullares
- 8 Vestibular nidi or nucleus of vestibular nerv
 - Dorsal root of 8th nerv

.818

**Myelencephalon, metencefal, medulla, bulb or afterbrain,
postoblongata or medulla oblongata**

- 1 Pyramids Pyramidal decussation
- 2 Dorsal column, posterior fibers, or funiculi dorsales
 - Arcuate fibers Restis or restiform body
 - Fasciculus of Rolando, cuneatus and gracilis
- 3 Lateral fibers Oliva or olivary bodies
 - Anterolateral ground bundle or fasciculus proprius anterolateralis; anterolateral cerebellar tract or fasciculus anterolateralis superficialis
- 4 Interolivary stratum, fillet or lemniscus
- 5 Fourth ventricle or metepicele
 - Metapore or foramen of Magendie Foramina of Luschka, Key and Retzius Obex Lingula Calamus scriptorius
- 6 Nucleus of glossopharyngeal system Solitary tract
- 7 Nuclei of vagus and accessory nervs
 - 75 Ambiguous nucleus
 - 78 Dorsal nucleus of vagus
- 9 Nucleus of hypoglossal system or hypoglossal nidus

.819

Meninges and cerebral meninges

- 1 Pia mater or pia
- 2 Telae choroideae, velum interpositum, choroid plexus
- 3 Arachnoid villi
 - Glandulae Pacchioni, Luschka's villi or granulations
- 4 Cisterns, or subarachnoid cisterns
- 5 Dura mater, or dura Tentorium and falx cerebelli
Falx cerebri

- 611.82 Spinal cord, or myel
- .821 **Enlargements or intumescētia; general structure**
- 2 Cervical cord or myel, pars cervicalis
- 3 Thoracic or dorsal cord or myel, pars thoracalis
- 4 Lumbar cord or myel, pars lumbaris
- 5 Sacral cord
- 6 Terminal cone, or conus (medullaris) Filum Cauda (equina)
- 8 Grooves and fissures, sulci and fissurae
- .822 **Gray substance or matter, entocinerea or cinerea Gray cornua or colum**
- 1 Anterior or ventral colum or cornu or funiculus anterior
- 2 Posterior or dorsal " " "
- 3 Clarke's colum, nucleus dorsalis or Stilling's nuclei
- 4 Gelatinosa or gelatinous matter, substantia cinerea gelatinosa Substantia spongiosa
- 6 Reticula or formatio reticularis
- .823
- .824 **White substance, or alba**
- .825 **Anterolateral colum**
- Anterior plus lateral colums
- 2 **Pyramidal tract or bundle or fasciculus cerebrospinalis**
- Direct or uncrossed tract, fasciculus cerebrospinalis anterior, or fasciculus
- Cross pyramidal tract, or cerebrospinalis lateralis
- 3 Direct cerebellar tract, or dorsolateral cerebellar tract
- 4 Gower's tract, cerebellar path of anterior funiculus, or fasciculus anterolateralis superficialis ascendens or anterolateral ascending cerebellar tract
- 5 Fasciculus sulcomarginalis, or marginal tract of Spitzka and Lissauer
- 6 Lateral colum or anterolateral descending cerebellar tract or colum of Marchi and Lowenthal
- 7 Anterolateral ground bundle or fasciculus proprius anterolateralis
- 8 Anterior or ventral commissure
- .826 **Posterior or dorsal colums**
- 1 Ascending fibers
- Tracts of Burdach (posterolateral or cuneatus) and of Goll (posteromedian or gracilis) and fasciculus of Rolando
- 5 Descending fibers Comma tract in Burdach's colum
- 8 Radicular fibers
- 9 Posterior or dorsal commissure
- .827 **Roots of nervs**
- Works tracing nerv roots into spinal cord; for macroscopic studies on nerv roots see 611.832
- 1 Anterior or ventral roots
- 2 Posterior " dorsal "
- .828 **Spinal canal Ependyma or endyma**
- Rhomboidal sinus Reissner's fibers
- .829 **Spinal membranes, or meninges spinales**
- 1 Spinal pia mater
- 3 " arachnoid
- 5 " dura mater

611.83 Periferal nervous system Nervis

.831

Cranial nervs and ganglia

- 1 Olfactory, or 1st cranial
- 2 Optic, or 2d cranial
- 3 Motoroculi, 3d cranial or oculomoto
- 4 Trochlear, pathetic, or 4th cranial
- 5 Trifacial, trigeminus, or 5th cranial
 - Large or great superficial petrosal branch
 - Ophthalmic nerv of Willis
- 52 Superior maxillary nerv or maxillary nerv
 - Infraorbital branch
- 56 Mandibular or inferior maxillary
- 6 Abducent, external motoroculi, oculomoto, or 6th cranial
- 7 Facial, 7th cranial nerv, or portio dura
 - Other collateral branches
 - Terminal branches
- 73 Pars intermedia of Wrisberg (nervus intermedius) Chorda tympani
- 8 Auditory, acoustic or 8th nerv
- 81 Cochlear nerv or path, or central auditory path
- 85 Vestibular path or nerv
- 9 Glossopharyngeal or 9th nerv
- 91 Pneumogastric, vagus or 10th nerv
 - Parietal branches: auricular and lateral nervs
 - Pharyngeal branches
 - Superior cardiac nervs
 - Superior laryngeal nerv
 - Inferior or recurrent laryngeal nerv
 - Pulmonary branches
 - Esofageal and gastric branches
- 92 Spinal accessory or 11th nerv
- 93 Hypoglossal or 12th nerv

.832

Spinal nervs

- Including in 5-6 microscopic studies on nerv roots. See also 611.827
- 1 Dorsal or posterior branches
- 2 Ventral or anterior " "
- 5 Dorsal or posterior roots See also 611.8272
- 6 Ventral or anterior " See also 611.8271

.833

Cervical nervs

- 1 Dorsal or posterior branches of cervical nervs Small and large sub-occipital nervs
- 2 Ventral anterior branches of cervical nervs
- 3 Cervical plexus
- 32 Large auricular nerv
- 33 Cutaneous nerv of neck
- 34 Supraclavicular nervs
- 36 Frenic or internal respiratory nerv of Bell
- 4 Brachial plexus
 - 41 Supraclavicular part
 - 47. Infraclavicular part
- 5 Median nerv
- 6 Ulnar or cubital nerv
- 7 Radial nerv
 - Musculo-spiral
- 8 Musculocutaneous nerv
- 9. Antibrachii ulnaris
 - Cutaneus brachii medialis, or nerv of Wrisberg

.834

Thoracic nervs

- 1 Posterior branches
- 2 Anterior " Intercostal nervs

611.835

Lumbar and sacral nerves

- 1 **Posterior branches**
- 2 **Anterior "**
- 3 **Lumbosacral plexuses**
- 4 Lumbar plexus
- 41 Great iliohypogastric nerve
- 42 Ilioinguinal
- 43 Genitofemoral or genitocrural
- 44 Lateral or cutaneous nerve of thigh
- 5 Femoral nerve or anterior crural nerve (femoralis)
- 51 Middle cutaneous nerve
- 52 Internal " "
- 53 Muscular branches of posterior division of anterior crural nerve
- 54 Long or internal saphenous nerve
- 6 Obturator nerve
- 61 Accessory obturator, or accessory anterior crural nerve of Winslow
- 68 Lumbosacral cord
- 7 Sacral or sciatic plexus
- 71 Superior gluteal
- 72 Inferior "
- 73 Small sciatic nerve (cutaneous femoris posterior)
- 8 Great sciatic nerve or ischiadicus
- 81 External popliteal, or peroneus communis or peroneal
- 82 Sural or lateral cutaneous branch, or cutaneous surae lateralis
- 84 Musculocutaneous or superficial peroneal
- 86 Anterior tibial nerve or deep peroneal
- 87 Internal popliteal or tibial
- 88 Sural or plantar nerves
- 9 Genital, pudic or pudendal plexus
- 93 Collateral branches
- 95 Pudic nerve

.836

Coccygeal plexus Coccygeal nerves

.839

Sympathetic system

- 1 Cervical and cephalic part
- 11 Superior cervical ganglion
- 12 Internal carotid nerve and plexus
 - Cavernous plexus
- 13 External carotid nerve and plexus
- 14 Common " plexus Superior cardiac nerve
- 15 Middle " ganglion Middle " "
- 16 Inferior cervical "
- 17 " cardiac nerve Cardiac plexus
- 2 Thoracic part of gangliated cord
- 3 Abdominal and pelvic part of sympathetic system
- 31 Solar or epigastric plexus or plexus coeliacus

.84

Eye Organ of vision

See also 611.7146 Orbit, including capsule of Ténon

.841

Fibrous coats or tunics of eye

- 1 Conjunctiva
- 3 Cornea
- 5 Sclerotic coat or sclera
 - Canal of Schlemm Spaces of Fontana

.842

Vascular coats of eye Uveal tract

- 1 Iris Pupil
- 3 Choroid
 - Tapetum
- 5 Ciliary body, muscle and processes

.843

Retina

Optic disc; macula lutea For optic nerv see 611.8312

- 611.844 **Refracting media**
 1 Crystallin lens
 2 Zonule of Zinn or zonula ciliaris
 7 Vitreous humor Posterior chamber
 Hyaloid membrane Hyaloid or Stilling's or Cloquet's can. l
 Canal of Petit
 9 Aqueous humor Anterior chamber
- .846 **Accessory organs of eye**
 1 External muscles, musculi oculi
 4 Tear apparatus
 7 Lacrimal gland
 8 " canals and puncta
 9 " sac and nasal duct
- .847 **Eyelids or palpebrae**
 5 Canthi
 6 Eyelashes or cilia
 6 Eyebrows or supercilia
- .85 **Ear Organ of hearing**
 See also 611.8318 Auditory nerv
- .851 **Internal ear**
 .852 **Membranous labyrinth**
 1 Cochlea, scala media, or ductus cochlearis
 2 Organ of Corti, or Corti's fibers
 4 Sacculc
 5 Utriclc
 6 Semicircular canals
- .853 **Osseous labyrinth**
 Vestibule, semicircular canals, cochlea, modiolus or columella
- .854 **Middle ear or tympanum**
 Atrium or tympanic cavity proper
 5 Attic
 7 Mastoid cells
- .855 **Membrana tympani, or drumhead**
 .856 **Eustachian tube or tuba auditiva**
 .857 **Bones of ear**
 Malleus or hammer; incus or anvil; stapes or stirrup; muscles of
 tympanum, stapedius and tensor tympani
- .858 **External ear**
 Meatus, pinna
- .86 **Organs of smell; olfactory organs**
 .87 " " taste
 .88 " " touch and senses in general
- .889 **Organa lateralia**
- .89 **Ganglions**
 Class ganglions here if separately treated
- .891 **Cranial ganglions**
 5 Semilunar ganglion or Gasserian
 52 Ciliary "
 54 Sphenopalatin or Meckel's ganglion
 56 Otic or Arnold's submaxillary ganglion
 7 Geniculate ganglion
 81 Spiral or Corti's ganglion
 85 Vestibular ganglion
 9 Petrosal and superior glossopharyngeal ganglion
 91 Jugular and nodose ganglions
- .892 **Ganglions of spinal nerves**
 See also 611.832 Spinal nervs
- .899 **Sympathetic ganglions**
 For chromaffin tissue see 611.4

- 611.9 Regional anatomy
- .91 Hed
 - .92 Face
 - .93 Neck
 - .94 Thorax
 - .942 Front or pectoral
 - .946 Back or dorsal
 - .95 Abdomen
 - .951 Epigastric region
 - .955 Mesogastric "
 - .957 Hypogastric "
 - .959 Lumbar "
 - .96 Pelvic and perineal region
 - .962 True pelvis
 - .964 False "
 - 1 Inlet 2 Cavity 3 Outlet
 - .966 Position and size
 - .968 Difference between male and female pelvis
 - .97 Upper extremities
 - .971 Shoulder or axilla
 - .972 Arm
 - .973 Elbow
 - .974 Forearm
 - .975 Wrist
 - .976 Hand
 - .977 Fingers
 - .98 Lower extremities
 - .981 Hip Nates Sulcus inguinalis
 - 1 Hip
 - 2 Nates
 - 3 Sulcus inguinalis
 - 4 Inguinal canal
 - 5 Crural or femoral canal
 - .982 Thigh
 - .983 Knee Popliteal space
 - .984 Leg
 - .985 Ankle
 - .986 Foot
 - .987 Toes
 - .99 Tail

612 Physiology

SUMMARY

- 612.013 Vitalism
- .014 Cells and organisms
- .015 Physiologic chemistry
 - .1 Blood and circulatory system
 - .2 Respiration
 - .3 Digestion
 - 4 Glandular system
 - .5 Animal heat
 - .6 Reproduction Development
 - .7 Motor and vocal apparatus
 - .8 Nervous system

- .01 **General theory of physiology**
 - .0111 Notion, definition, nature
 - .0112 Classification, division
 - .0114 Terminology, notation, symbols
 - .0118 Methods

Physiologic theories and generalities

On the nature of life and deth Vitalism

This place is provided for the physiologist who prefers to keep related topics with his subjects. Usually the heds under this number are better clast in their broader relations; i. e. see 577.2 for the nature of life; 577.7 for the nature of deth; 612.67 for deth as a stage in vital history

- 1 Signs of real deth See 577.7
- 2 Experiments on executed persons
- 4 Theories of life and the soul Vitalism
 - See metaphysics, 128
- 5 Comparisons of animals and plants See 577.5
- 6 Organism and inanimate matter See 577.1
- 7 Vital energy See 577.6
- 8 Experiments on surviving organs See 577.6

.014 General physiology of cells and organisms

See 576 and note under 612.013

- 1 **Chemistry of cells**
 - 11 Aerobic and anaerobic cells
- 2 **Physiologic morfology of cells**
 - 21 Functions of protoplasm
 - 22 " " nucleus
 - 24 " " chromosome bodies Chromatolysis
 - 26 " " centrosome

Physiologic characteristics of cells

- 3 Irritability in general
- 31 Fatigue
- 4 Influence of environment on cells and organisms

Mesology

- 41 Effects of barometric pressure
 - See also 612.27 Influence of barometric pressure on living beings
- 42 Action of electricity Electrophysiology
 - 421 Electrophysiologic technic
 - See also 615.84 Electrotherapy
 - 2 Static electricity
 - 4 Dynamic electricity
 - 5 Alternating currents
 - 7 Electric mesurements
 - 8 Special instruments
 - 1 Electrodes
 - 2 Telephone, microfone
 - 6 Galvanometers
- 422 Electric resistance Conductibility

DECIMAL CLASSIFICATION

612.014 423	Electric phenomena of organisms For electric phenomena of muscles see 612.743, of nervs and muscles see 612.813
1	Theory of electric phenomena
2	Negativ variation
3	Electrotonus
4	Electric phenomena of tissues in repose and in action
424	Action of electricity on organisms Everything concerning effect of electricity on function may be clast here by adding 0 and dividing like 612; e.g. action of electricity on red corpuscles 612.0144240111, as .111 is the subdivision of 612 meaning red corpuscles. Action of electricity on bile 612.0144240357, as .357 means bile
2	Action of static electricity
3	" " atmosferic "
4	" " dynamic "
5	" " alternating currents
425	Deth by electric shock; by lightning
426	Magnetic action
427	Galvanotropism
428	Electrotherapy from physiologic point of view
43	Action of heat and cold See also 612.59
44	Action of light See also 612.843
445	Phosphorescence
447	Heliotropism Phototropism See also 615.831 Phototherapy
45	Action of sound and its vibrations See also 612.85876
46	Poisons and chemic substances Poisons and definit chemic substances ar preferably clast in 615.7, general toxicology in 615.9. This number is for topics of special physiologic interest
461	Effects of water
1	Reviscent animals
2	Hydrations
3	Quantity of water in organisms and tissues
462	Physicochemic forces
1	Osmosis
2	Molecular concentration in organic fluids Cryoscopy Subdivisible with 0 like 612; e. g. Cryoscopy of gastric juice 612.01446222032
3	Relation between secretion and osmotic pressure
4	Relation between osmosis and electric action: ions
5	Colloid substances: coagulation, agglutination, etc. See also 612.398133 Theory of histologic conservation
6	Reaction, acid or alkalin
7	Viscosity
8	Superficial tension
9	Other physicochemic forces
463	Action of mineral salts on organisms
464	" " air, normal and abnormal; of oxygen and ozone
465	" " anesthetics
466	" " antiseptics
467	Chemotaxis Chemotropism
469	Action of other chemic forces
47	Action of mechanical forces
477	Geotropism
478	Thigmotaxis
48	Other physical forces
481	Various rays
1	Physiologic effect of X rays To express effect of X rays on a specific organ or tissue, ad 0 and subdivide like 612; e.g. effect of X rays on sight 612.0144811084
4	Effect on lower organisms
482	Effect of radioactiv substances; Becquerel rays
483	Production and action of N rays

MEDICIN: PHYSIOLOGY

- 612.015 **Physiologic chemistry in general**
- 1 **Ferments**
- 11 **Oxydants** **Reducing ferments**
- 12 **Hydrolytic**
- 13 **Proteolytic**
- 14 **Lipolytic**
- 15 **Amyolytic and sucroclastic**
- 16 **Glycolytic**
- 161 **Alcoholic**
- 2 **Normal composition of the body and its products**
 See also 612.3926, 612.396-398
- 21 **Extracts of organs**
- 3 **Metabolism**
- 31 **Of mineral substances**
 See also 612.3926
- 32 **Of carbon**
 See also 612.22
- 33 **Of nitrogen**
 See also 612.46123
- 34 **Of substances foren to the normal organism**
 Elimination of poisons
 Most material will be clast under 615.7 and its subdivisions
 See also special organs
- 346 **Metabolism of nonnitrogenous substances**
- 347 " " **crystallizable nitrogenous substances**
- 348 " " **albuminoids**
- 349 " **after deth** **Autolysis**
 Subdivisable with o like 612; e. g. autolysis of the liver
 612.015349035
- 35 **Influence of temperature on metabolism**
 See also 612.59
- 36 **Reductions, hydrations and syntheses in organisms**
- 37 **Influence of other agents on metabolism**
- 38 **Influence of nervous system on metabolism**
- 39 **Metabolism in disease**
- 4 **Staining substances and pigments**
- .016 **Means of attack and defense**
 Comparativ physiology; usually better clast in 591.57
- 1 **Autotomy**
- 2 **Mimicry**
- 3 **Physiology of parasites**
- .019 **Comparativ physiology**
 May be subdivided like 590 to signify kind of animal; e. g. Reptils
 being 598.1, comparison of reptil and human physiology is 612.01981
 Class here only bcooks written distinctly from physiologist's point
 of view. Other works on comparativ zoology are better in 591.1
- Form divisions**
- .02 **Compendis**
- .03 **Dictionaries** **Cyclopedias**
- .04 **Essays** **Addresses**
- .05 **Periodicals**
- .06 **Societies** **Clubs**
- .07 **Study and teaching**
- .077 **Vivisection**
 See also ethics, 179.4, and laws, 614.22
- .08 **Polygrafy**
- .09 **History**

- 612.I Blood and circulatory system**
- .109 History of circulation of blood**
 - .11 General properties of blood**
 - .111 Red corpuscles**
 - 1 Chemic composition**
 - 11 Hemoglobin and oxyhemoglobin
 - 14 Carboxyhemoglobin
 - Action of CO on blood, carbon monoxid hemoglobin
 - 15 Spectroscopy of blood
 - 16 Methemoglobin and derivates
 - Hematin or hematoxylin, hematoidin, globin, hemin r Teichmann's crystals, hematochromogen, hematoporphyrin
 - 17 Isotony of corpuscles Osmotic permeability
 - 19 Chemic substances in corpuscles
 - Lecithin, urea, cholesterin, etc.
 - 2 Number of corpuscles**
 - Technic of counting
 - 22 Volume of corpuscles**
 - 3 Formation of corpuscles**
 - See also 612.119 Sanguification
 - 4 Action of poisons on corpuscles**
 - See also 612.11114 Action of CO on blood
 - 44 Agglutinating substances**
 - 45 Hemolytic substances**
 - 6 Corpuscles in disease**
 - 7 Other red corpuscles than erythrocytes**
 - 8 Coloring matters of invertebrate blood**
 - e. g. hemocyanin
 - 9 Other similar coloring matters**
 - e. g. chlorophyl and derivates: phyllcerytrin
 - .112 Leucocytes and ameboid cells**
 - 1 Chemistry of leucocytes**
 - 11 Ferments of leucocytes
 - Influence of leucocytes (lymphocytes) on digestion
 - 2 Movements and irritability of leucocytes**
 - 3 Phagocytosis
 - 4 Diapedesis
 - 5 Effect on coagulation of blood**
 - 6 In disease and intoxications Leucocytosis**
 - For digestiv leucocytosis see 612.11211
 - 7 Counting and its technic**
 - 8 Numeric relations of white and red corpuscles**
 - 9 Varieties Physiologic morfology**
 - .113 Arterial blood**
 - .114 Venous "**
 - .115 Coagulation of blood**
 - 1 Fibrin Fibrinoplastin**
 - 11 Composition and chemic properties
 - 12 Fibrinogen and fibrinoplastic ferments Fibrinogen Thrombin
 - 13 Estimating quantity of fibrin
 - 3 Substances modifying coagulation**
 - 31 Retarding agents
 - 35 Accelerating agents

MEDICIN: PHYSIOLOGY

- 612.116 **Total quantity of blood**
- 2 **Hemorrhage** **Anemia**
 Subdivisible with o like 612; e. g. physiologic influence of anemia
 on kidneys 612.1162046 For pathologic effect see 616.243,
 618.54
- 21 **Hemostasia**
- 3 **Transfusion**
 Effect on system receiving transfused blood
- .118 **Physical and biologic properties of blood**
- I **Physical**
- 11 **Osmotic pressure**
 See also 612.11117 **Osmotic permeability**
- 12 **Effect of various injections**
- 14 **Viscosity**
- 17 **Cryoscopy of blood**
 Method of studying isotony and similar phenomena by relativ
 freezing points of solutions
- 2 **Biologic properties**
- 21 **Toxins and antitoxins**
 Physiologic effect For chemic action see 612.3908 May
 be used for those not produced by the blood, e. g. cytotoxins
- 211 **Theory of toxic and antitoxic action**
- 22 **Toxic and antitoxic action of blood**
 Limited to blood toxins and antitoxins. See also 612.3988
- 221 **Specific reaction of blood and albuminoids**
 Blood in legal medicin
- 222 **Natural immunity**
- 223 **Effect of blood on bacteria**
 Class here physiologic aspect of opsonic theory, opsonins and
 opsonic index See also 615.37 **Serotherapy**
- 24 **Various toxic and antitoxic substances of blood**
- 7 **Varieties of blood in different parts of body**
- .119 **Hematopoiesis or sanguification**
 See also 612.1113 Formation of red corpuscles
- .12 **Chemic properties of blood**
- .121 **Reaction and density**
 Color reaction Specific gravity
- .122 **Carbohydrates in blood**
 1 Glucose 2 Glycogen 3 Glycolytic ferments
- .123 **Fats, lipoids, cholesterin, saponin, glycerin**
- .124 **Albumins and albuminoids** **Uncrystallizable nitrogen
 compounds**
 See also 612.39812 **Blood serum**
- .125 **Crystallizable nitrogen compounds**
 Staining substances of serum
- .126 **Mineral salts**
- .127 **Blood gases**
 1 Technic for determining quantity 2 Oxygen 3 Carbonic acid
- .128 **Ferments**
- .129 **Other chemic substances**
 Abnormal substances

- 612.13 Hydraulic principles of circulation
- .133 **Arterial circulation**
 - Sounds and murmurs
 - See also 612.143
 - .134 **Venous circulation**
 - See also 612.144
 - 1 Air in the veins
 - 2 Venous pulse Flebogram
 - .135 **Capillary circulation**
 - .14 **Blood pressure**
 - .141 **Technic of mesuring pressure**
 - Sphygmograf Sphygmomanometry
 - .143 **Pressure in arteries**
 - See also 612.133
 - .144 **Pressure in veins**
 - See also 612.134
 - .145 **Pressure in capillaries**
 - See also 612.135
 - .146 **Influence of various agents on pressure**
 - 1 Influence of respiration Asphyxia
 - See also 612.213
 - 2 Effect of drugs and organic extracts
 - 3 Pressure in disease
 - .148 **Pressure in lesser or pulmonary circulation**
 - .15 **Rapidity of circulation**
 - In arteries, veins or capillaries Technic of mesuring
 - .16 **Pulse**
 - For dicrotic pulse see 616.071 Pulse in diagnosis
 - See also 612.1342 Venous pulse
 - .166 **Pulse in disease**
 - .17 **Hart**
 - .171 **Mechanism of cardiac contraction**
 - Impulse or apex beat Change of volume and position of beating
 - hart Systole Diastole
 - 1 Technic of cardiac contraction Cardiografy
 - 3 Valvs System of valv closure
 - 5 Hart sounds
 - 56 " " in disease
 - 7 Action of abnormal hart: misplaced or malformd
 - .172 **Hart as a muscle**
 - Cardiac irritability, contractibility and physiologic morfology
 - 1 Action of blood and coronary arteries Cardiac anemia
 - 2 Rhythm Excitation wave Frequency of beats
 - 3 Electric stimulation of hart and refractory period
 - 4 Electromotiv force
 - 5 Surviving hart Artificial respiration
 - Solutions maintaining beat of hart
 - 6 Physiologic morfology
 - 61 Conduction of stimulation

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- .612.173 **Work of the hart**
 - Chemic, dynamic and thermic phenomena
 - 1 Chemic composition of hart
 - 2 Intracardiac pressure
- .174 **Effect of toxins on the hart**
 - 1 Atropin
 - 2 Anesthetics
- .176 **Hart in disease**
- .178 **Innervation of hart**
 - 1 Pneumogastric or vagus
 - See also 612.819911
 - 2 Sympathetic
 - See also 612.897
 - 3 Ganglions of hart
 - 4 Action of cerebrum
 - See also 612.8228
 - 5 Action of medulla oblongata
 - See also 612.828
 - 6 Cardiac syncopes and reflexes
 - 7 Depressor nerv
- .179 **Prenatal circulation**
- .18 **Vasomotors**
- .181 **Action of nervs and nerv centers on bloodvessels**
 - 1 Action of cerebrum
 - 2 " " medulla oblongata
 - 3 " " spinal cord
 - 4 " " great sympathetic
- .182 **Influence of vasomotors on arterial pressure**
- .183 **Vasoconstrictors**
- .184 **Vasodilators**
- .185 **Effect of poisons on vasomotors**
- .186 **Vasomotors in disease**
- .187 **Vasomotors in organs**
 - Divide like 612 Physiology; e. g.
 - 612.18724 Effect of vasomotors on lung capacity
 - 612.1878421 Effect of vasomotors on iris
 - 612.1875 Influence of vasomotors on temperature
 - 612.187556 Vasomotors in fever
- .188 **Erectil tissues**
 - See also 612.612
- .189 **Change of volume of organs**
 - Plethysmografy Quantity of blood in various organs
- .19 **Action of special organs on circulation**
- .2 **Respiration**
 - See also 612.793 Cutaneous respiration
- .21 **Respiratory movements** **Mechanics of respiration**
- .211 **Pneumografy** **Respiratory types**
 - Respiratory excursion
- .212 **Pulmonary elasticity and intrapleural pressure**
 - Intrapulmonary and intrathoracic respirations

- 612.213 **Influence of respiration on circulation**
 See also 612.1461
- .215 **Special physiology of respiratory apparatus**
 1 Bronchi
 2 Trachea
 3 Smooth pulmonary muscles
 4 Primary paths of respiration: nose and pharynx
 5 Pleura
 8 Pulmonary circulation
 See also 612.148
 9 Pulmonary absorption of liquids
 See also 612.385
- .216 **Respiratory frequency and rhythm**
 1 Respiratory sounds
 2 Pulmonary ventilation
 3 Artificial respiration, artificial changes of respiration
- .217 **Action of muscles Mechanical phenomena**
 Dimensions and expansibility of thorax
 1 Action of diafram
- .219 **Other mechanical phenomena**
 Modified respiratory acts: snoring, laughing, crying, sighing, yawning, coughing, hawking, sneezing, blowing nose, gargling
- .22 **Respiratory exchange of gases Respiratory chemistry**
 o2 Action of oxygen and ozone on organisms
 o8 Composition of normal air (only in its physiologic bearing)
- .221 **Technic of gaseous exchange**
- .222 **Effect of various agents on gaseous exchange**
- .223 **Effect of quality of air**
 Hyperpnea, polypnea, thermopnea
 Composition of abnormal air
 1 Carbonic acid
 11
 12 Activ oxygen or ozone
 2 Influence of barometric pressure
 See 612.27
 3 Influence of climate
- .224 **Influence of food**
- .225 " " temperature
- .226 **Effect of disease and intoxications**
- .227 **Influence of organs**
 1 Influence of muscular movements
 Motion, rest, work
 2 Influence of nervous system
 3 " " circulation
- .229 **Influence of animal kind**
 Variability of gaseous exchange in animal kinds
 1 Influence of stature
 2 Aquatic animals

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- 612.23 Gaseous exchange in the blood
 .231 Expired air Respiratory quotient
 .232 Asphyxiation
 In legal medicin
 1 Artificial respiration in asphyxiation
 2 Asphyxiation by submersion
 3 Hart in asphyxiation
 4 Toxic action of carbonic acid (CO₂)
 .233 Respiration in confined air
 .234 Toxic action of carbonous oxid (CO)
 See also 612.11114 and 615.96
 .235 Exchange of gases between air and blood
 1 Theory
 .24 Lung capacity Vital capacity
 Residual, reserv, respiratory or tidal and complemental air
 .25 Exhalation of water from lungs
 .26 Internal or tissue respiration
 .261 Exchange of gases between tissues and blood
 .262 Accumulation of oxygen in tissues (cells)
 .27 Influence of barometric pressure on living beings
 See also 612.01441. For effect on absorption of oxygen and exhalation
 of carbonic acid see 612.2232
 .273 Toxic effects of oxygen and ozone
 .274 Effect of more than normal pressure
 Physiologic aspect of caisson disease
 .275 Effect of less than normal pressure
 1 Physiologic and therapeutic effects of high altitudes
 11 Mountain and aeronautic sickness
 .276 Effect of pressure on fermentations
 Effect of removing pressure
 .279 Maximum pressures
 Effect on aquatic animals
 .28 Respiratory centers
 Influence of nervous system on respiration
 .281 Action of cerebrum and of will
 .282 " " medulla oblongata and vagus nucleus
 .283 " " spinal cord
 .284 " " chemic substances and abnormal blood gases
 1 Toxicology of center
 2 Apnea, acapnea, dyspnea
 See also 612.232
 .287 Action of pneumogastric or vagus nervs
 See also 612.819912
 .283 Respiratory reflexes
 See also 612.8332
 .29 Influence of other organs on respiration

612.3 Digestion

May be subdivided by 01-09 for form, if needed

- .31 Mouth Teeth Salivary glands**
- .311 Mastication and prehension**
 - 1 Physiology of teeth**
- .312 Deglutition or swallowing**
 - 2 Tonsils**
 - 3 Tongue**
- .313 Salivary glands Saliva**
 - 1 Composition of normal saliva**
 - 2 Action of saliva on food Ptyalin**
 - 3 Salivary secretion**
 - 31 Toxic effect of saliva**
 - 4 Action of chemic substances**
 - See also Therapeutics, 615.741 Sialagogos
 - 41 Elimination**
 - 42 Action of atropin and of pilocarpin**
 - 5 Physiologic morfology**
 - 6 Pathologic changes of saliva**
 - 61 Salivary fistulas**
 - 63 Bacteriology**
 - 64 Salivary calculi**
 - 69 Abnormal substances**
 - 8 Action of nervous system on salivary secretion**
 - 82 Action of sympathetic nerv's**
 - See also 612.898
 - 87 Action of chorda tympani**
 - See also 612.81977
- .314 Salivary venoms and venoms in general**
 - 1 Chemic composition**
 - 2 Toxic action**
 - 3 Natural immunity and resistance to venoms**
 - 4 Attenuation and neutralization of venoms**
 - 5 Treatment of venom poisoning Serotherapy**
 - See 615.94 Duplicated here for physiologist only
 - 51 Antitoxins**
 - See also 612.11822 Antitoxins of serum
- .315 Esofagus**
- .32 Stomach Gastric juice Vomiting**
- .321 Normal composition of gastric juice**
 - 1 Gastric fistulas, experimental and pathologic**
 - 2 Determination of acid in gastric juice**
 - 5 Proteolytic ferments: pepsin**
 - 6 Milk curdling ferments, inorganic and organic**
- .322 Digestiv power of gastric juice**
 - 1 Starch and analogs**
 - 2 Sugars " "**
 - 3 Fats " "**
 - 4 Albuminoids**
 - 45 Nature and properties of peptones**
 - See also 612.39817
 - 5 Antiputrefactiv properties of gastric juice**
 - 6 Mixture of bile or other secretions of digestiv tract and gastric juice**

612.3227

Absorption in stomach and transformation (into mucus) of products of digestion

See also 612.386

- 72 Absorption and transformation of sugars
- 73 " " " " fats
- 74 " " " " nitrogenous substances (peptones)
- 75 " " " " salts Effect on stomach

.323

Stomach secretion

- 2 Formation and destruction of pepsin
- 21 Pepsin in urin
- 3 Formation of hydrochloric acid (HCl)
- 4 Autodigestion of stomach
- 5 Effects of removing stomach

.324

Action of chemic substances (poisons) on gastric secretion and their elimination

.325

Physiologic morfology of stomach

Relation between morfologic changes and stimulation

.326

Pathologic changes of stomach secretion

- 3 Bacteriology
- 5 Gastric juice in disease
- 9 Abnormal substances in gastric juice

.327

Movements of stomach

- 1 Muscular irritability of stomach
- 2 Motor action of pneumogastric See also 612.819913
- 3 Evacuation of stomach
- 5 Merycism and rumination
- 7 Vomiting
- 8 Action of emetics or vomitories

See also under therapeutics, 615.731 Emetics

.328

Action of nervous system on stomach

- 1 Psychic influence on stomach secretions
- 8 Sensibility of stomach

.33

Intestin

Middle intestin and glands of middle intestin in invertebrates

.331

Normal composition of intestinal juice

- 1 Intestinal fistulas, experimental and pathologic
- 7 Intestinal gases Fermentiv process due to bacteria

.332

Intestinal digestion

- 2 Carbohydrates
- 3 Fats
- 4 Albuminoids and derivates Erepsin
- 7 Absorption and changes of food in intestin

See also 612.386

- 72 Carbohydrates
- 73 Fats Chyliferous vessels See also 612.426
- 74 Albuminoid derivates
- 75 Other substances
- 75.1 Inorganic substances Water and salts

8 **Action of intestinal juice on other secretions and ferments**

See also 612.3226

- 84 Enterokinasis and secretin

- 612.333 Intestinal secretion
- .334 Action of chemic substances on the intestine and their elimination
- 4 Purgatives
See also therapeutics, 615.732 Cathartics
- .335 Physiologic morphology of intestine
- 5 Intestinal circulation
- .336 Pathologic changes of intestinal secretion
- 3 Parasites and microbes
- 31 Bacterial fermentation Physiologic effect of microbes
- .337 Movements of intestine
- I Movement of chyme in intestine
- .338 Action of nervous system on intestine
- I Action of nerves and nerve centers on secretion
- .339 Peritoneum Omentum
- I Absorption in peritoneum
See also 612.387
- .34 Pancreas Pancreatic juice
- .341 Normal composition of pancreatic juice
- I Pancreatic fistulas
- .342 Action of pancreatic juice on food Trypsin digestion
- I Starches and analogs
- 2 Sugars
- 3 Fats Steapsin or ptyalin
- 4 Albuminoids Trypsinogen Trypsin
- 5 Effect on other digestive phenomena
- 51 On bile and gastric juice
See also 612.3226
- .343 Pancreatic secretion
- .344 Action of special substances on pancreatic secretion and juice
- .345 Physiologic morphology
Relation between morphologic changes and stimulation
- .346 Pathologic changes of pancreatic juice
- .348 Action of nervous system on pancreas
- .349 Pancreas as an internal gland Islands of Langerhans
- I Pancreatic glycosuria
Physiologic phenomena only. See also 612.35216, 612.46621, and diseases 616.61, where most material belongs
- .35 Liver
- .351 Hepatic circulation and chemic composition
- I Chemic composition
- 11 Ferments
- 5 Hepatic circulation
- 51 Ligature of portal vein
- 6 Effect of extracts from hepatic tissue
- 61 Hepatic opotherapy

- 612.352 **Effect of liver on absorbd foods**
- I **Glycogenesis** Glycogen of liver and its tissues
 - See also 612.396112 Chemistry of glycogen
 - 11 Determination of amount of sugar and glycogen: technic
 - 12 Sugar of the blood See also 612.122
 - 13 Action of nerves on glycogenic function Experimental diabetes
 - 14 Fermentation of glycogen Glycogenolysis
 - 16 Glycosuria (diabetes) in general
 - See also 612.3491, 612.46621 and pathology 616.63
 - 17 Glycogen of other organs
 - 18 Glycogen of muscles See also 612.74411
 - 19 Relations between glycogenesis and alimentation
 - 2 **Fat** Adipogenic function
- .353 **Hepatic chemic phenomena**
- I Formation of urea See also 612.4612
- .354 **Action of poisons on liver**
- I Toxic steatoses
 - 2 Antitoxic action of liver
- .355 **Temperature of liver** See also 612.563
- .356 **Hematopietic function of liver and effect on blood**
- See also 612.119
- .357 **Bile**
- I Normal composition of bile
 - 11 Biliary fistulas
 - 13 Coloring matter Bile pigments
 - Bilirubin, biliverdin For origin see 33 below
 - 14 Mineral salts
 - 15 Biliary acids and their salts
 - Glycocholic and taurocholic acids
 - 2 Action of bile in the intestin
 - Final fate of bile
 - 3 Bile secretion
 - 31 Quantity
 - 32 Origin of bile acids
 - 33 " " " pigments
 - 4 Action of chemic substances on bile secretion
 - See also therapeutics, 615.742 Cholagoges
 - 5 Elimination of poisons by bile
 - 6 Pathologic physiology of bile
 - For general works and medical aspect see 616.36
 - 64 Biliary calculi
 - 65 Obliteration of bile ducts Icterus Jaundis Cholemia
 - See also pathology, 616.36 Liver and bile ducts
 - 66 Bile in disease
 - 67 Toxic effects of bile
 - 69 Abnormal biliary substances
 - 7 Biliary excretion Physiology of ducts
 - 71 Gall bladder
 - 72 Absorption in biliary ducts
 - 73 Contractility of ducts
 - 8 Innervation of bile ducts
- .358 **Action of nervous system on liver**
- .359 **Ablation, regeneration, cicatrization and other mor-
fologic phenomena**
- I Volume of liver
 - 2 Fatty or starchy degeneration

- 612.36 Defecation Large intestin
Proctodeum and its appendages in invertebrates
- .361 Chemic composition of excrements
- .363 Cecal digestion Vermiform appendix
- .364 Absorption in large intestin
- .365 Defecation
- .366 Rectum
- .367 Movements of large intestin
- .368 Innervation " " "
- .38 Absorption
- .381 Imbibition Transudations and exudations Edema
- .382 Osmosis See also 612.0744621
- 1 Dialysis of mineral salts
- 2 " " sugars
- 4 " " albuminoids
- .383 Diffusion
- .384 Absorption by skin
See also 612.79
- .385 Absorption by lungs
See also 612.2159
- .386 Absorption in digestiv tract
General; see also specific part of tract
- .387 Absorption by mucous and serous membranes
See also 612.3391
- .388 Parenchymatous absorption
Absorption by cellular tissue (after injection)
- .39 Nutrition Metabolism
- .391 Hunger Thirst Inanition
- 3 Hunger, thirst and nervous centers Mechanical
 action of hunger
- 4 Inanition in man
- 6 " " disease
- 9 " " animals
- 92 Inanition in poikilothermic animals
- 96 " " homiothermic "
- .392 Foods
- 1 Assimilation of carbon
- 2 " " nitrogen
See also 612.46123
- 3 Assimilation of water
- 4 " of sulfur, fosforus and iron
 3 Sulfur 4 Fosforus 5 Iron
- 5 Thermodynamic value of food
- 6 Mineral foods
 1 Sodium salts 2 Potassium salts 3 Calcium salts
- 7 Vegetable foods
- 71 Vegetarianism See also hygiene, 613.26 Vegetable diet
- 72 Fruits and fresh vegetables
- 73 Cereals
- 74 Bred

612.3928

Animal food

See also hygiene, 613.28 Meats in diet

- 81 Meats
- 82 Soup Meat extracts
- 83 Eggs
- 84 Milk

See also 612.664

- 841 Sterilization and artificial changes in milk
- 85 Cheese
- 86 Butter

9 Special artificial foods

.393 Condiments and stimulants

- 1 Alcohol as food Fermented drinks
See also hygiene of nervous system, 613.81 Alcohol
- 2 Coffee Tea
See also hygiene of beverages, 613.37

9 Condiments

.394 Ration or food requirement during growth

- 2 Of man Nourishment of newborn
- 3 " animals

.395 Ration or food requirement of adults

- 1 Working ration Normal ration
- 12 Working ration for man
- 13 " " " animals

2 Subsistence ration

- 22 Subsistence ration for man
- 23 " " " animals

5 Relations of ration to external conditions,
e. g. climate

6 Food requirements in disease

.396 Carbohydrates

1 Chemic composition

- 11 Polysaccharids
- 111 Starch Inulin
- 112 Glycogen
- 113 Cellulose
- 12 Gums and analogs: dextrin
- 13 Monosaccharids: glucose, mannose, galactose, fructose, etc.
- 14 Disaccharids: sugar, lactose, maltose, etc.
- 17 Combined carbohydrates
See 612.3981453 Glycoproteids
- 172 Chitin
- 175 Glycosids: amygdalin, salicin, phlorizin, saponin, etc.
- 19 Other carbohydrates: pentose, inositum

2 Changes of sugars in organism Glycolysis

- 21 Products of carbohydrates; e. g. glycuronic acid
- 22 Alcohol in tissues

3 Hydrolytic ferments of carbohydrates and analogs

- 31 Amylasis, inulasis, cytasis, etc.
- 32 Saccharoclastic ferments Inversion

4 Formation of carbohydrates in organism

5 Thermodynamic value of carbohydrates

7 Quantity of carbohydrates in foods and tissues

612.397

Fats

- 1 Chemic composition
- 2 Changes of fats in organism
- 21 Fatty degeneration and infiltration See also 612.3952
- 22 Products of fats
- 23 Acids
- 24 Glycerins
- 3 Lipolytic ferments
- 4 Formation of fats
- 5 Thermodynamic value
- 7 Quantity of fat in food and tissues Adiposity
- 8 Lipoids
- 81 Cholesterin
- 82 Lecithin

.398

Albuminoids and nitrogenous substances

- 1 Chemic composition
- 11 Composit albuminoids
 - For eg albumin see also 612.39283
- 12 Blood serum and other serous fluids of body
 - See also chemical properties of blood, 612.124 Albuminoids
- 13 Simple albuminoids
- 131 Albumin
- 132 Globulins: fibrinogenic and fibrinoplastic substances, myosin, etc.
- 133 Coagulated albuminoids Fibrin Coagulation of albuminoids
- 135 Albuminoids as acids or bases
- 136 Nucleoalbumins, simple phosphorated albuminoids
- 138 Protamins
- 139 Other albumins
- 14 Other albuminoids
- 145 Proteids
 - Albumin + a complex organic compound
 - 1 Nucleoproteids
 - Albumin + nucleic acid, products of nucleic acid and specific ferments
 - 2 Hemoglobin and analogs
 - Albumin + an iron compound. See also 612.11111
 - 3 Glycoproteids
 - Albumin + a carbohydrate. See also 612.3967
- 146 Albuminoids: glutin, elastin, amyloid, etc.
- 15 Vegetable albuminoids
- 16 Albuminoid products and nitrogen compounds
- 17 Albuminoses and peptones
- 172 Thermodynamic value
- 175 Changes of substances derived from albuminoids by digestion
- 19 Products of complete change of albuminoids Nitrogen compounds
- 191 Protaminic nucleus See also 612.398138
- 192 Amidic acids
- 193 Urea Uric acid See also 612.4612, 612.46125, 612.398195
- 194 Ammonia and ammonia compounds
- 195 Bases (alkaloids), purin compounds
- 196 Aromatic compounds
- 197 Nonnitrogenous products of albuminoids
- 199 Other products
- 2 Changes of albuminoids in organism
- 3 Proteolytic ferments
 - Only general works See specific nitrogen compounds for their derivatives, ferments and properties For milk curdling ferments see 612.3216 and 612.664171
- 5 Thermodynamic value of albumins and derivatives
- Albumin as food

- 612.3986 Formation of albuminoids in general
 7 Quantity of albuminoids in food and tissues
 8 Toxins, antitoxins Chemistry of poisons
 For action, see 612.11821; for animal poisons, see 612.314; for
 ptomaines, leucomains, etc. see 612.398195 above
- .4 Glandular system Secretion Excretion**
- .401 Effect of circulation on glands
 .402 " " glands " circulation and blood
 .403 " " " " nutrition
 .404 " " nutrition " glands
 .405 Physics and chemistry of secretion
 .407 Effect of glands on nervous system
 .408 " " nervous system on glands
 See also 612.817
 .409 Physiologic morphology of secretions and glandular epitheliums
- .41 Spleen**
- .411 Hematopoietic action Effect of spleen on blood
 .412 Splenotomy Circulation in spleen
 .413 Contractility of spleen
 .414 Spleen in relation to other organs
 Effect on digestion
 .416 Function of spleen in disease, in experimental infections
 and in wounds
 .418 Chemic phenomena
- .42 Lymfatic system and lymf**
 For lymfocytes see 612.112
- .421 Lymf Chemic composition
 .422 Quantity and origin of lymf
 .423 Lymfatic circulation
 Thoracic duct
 Lymfatic harts
 .424
 .425 Innervation of lymfatic system
 .426 Lymfatic absorption
 See also 612.33273
 .427 Lymfatic fistulas
 .428 Lymf glands
- .43 Thymus**
- .44 Thyroid gland**
- .441 Chemic composition
 .442 Parathyroid glands or accessory thyroids
 .445 Thyroidectomy Destruction of thyroid
 Including pathologic destruction
 .448 Effects of thyroid extracts
- .45 Suprarenal capsules**
- .451 Chemic composition
 .455 Excision and destruction
 .458 Effect of capsular extract

- 612.46 Kidneys Urin
 .461 **Chemic composition of urin**
- 1 Reaction and physical properties
- 11 Reaction
- 12 Density
- 13 Temperature
- 17 Urinary technology
- 174 Staining reactions
- 175 Spectroscopic examinations
- 176 Polarimetric "
- 177 Histochemic "
- 178 Pathologic urinary technology
- 179 Densimetry and cryoscopy of urin
- 2 **Urea and nitrogen compounds**
- 21 Determination of quantity of urea Ureameters
- 22 Determination of total nitrogen
- 23 Excretion and metabolism of nitrogen
- 231 In relation to alimentation
- 232 " " " work
- 234 Effect of chemic substances (poisons)
- 235 Influence of temperature
- 236 " " disease
- 238 " " nervous system
- 239 " " animal kind
- 25 Variability of process in animal kingdom
- 25 Uric acid See also 612.398193
- 251 Determination of quantity
- 254 In animals
- 255 " normal man
- 256 " man in disease: uric diathesis
- 259 " other tissues and fluids than urin
- 26 Other nitrogen products of urin
- 261 Bases Xanthin bases See also 612.398195
- 262 Ptomains
- 263 Allantoin
- 264 Peptones See also 612.46668, 612.39817
- 266 Hippuric acid
- 267 Ammonium and other urates See also 612.398194
- 268 Ferments See also 612.32321
- 269 Physiologic albuminuria
- 27 Coloring matter Pigments: urobilin, urochrome
- 6 **Salin substances in urin**
- 61 Chlorin salts
- 62 Fosforus and its compounds
- 63 Sulfur and its compounds
- 64 Gases of urin
- 8 **Nonnitrogenous organic constituents of normal urin**
- 82 Sugars Physiologic glycosuria
- .462 **Urinary toxicity**
- 1 Internal secretion of kidneys
- .463 **Urinary secretion**
- 1 Quantity of urin
- 2 Elimination of urin
- 4 Renal circulation
- 5 Influence of blood and circulation
- 6 Comparativ secretion of the two kidneys
- 8 Effect of nervous system
- 81 Glycosuria, polyuria after lesion of medulla oblongata

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- 612.464 **Action of poisons on urinary secretion and their elimination**
- 1 Diuretics Polyuria
 See also 615.761 Diuretics in therapeutics
- 2 Toxic albuminurias
 See also 612.46622
- 3 Elimination of poisons by urin
- 4 Toxic glycosuria Phlorizin
 See also 612.46621
- .465 **Physiologic morfology of kidneys**
- .466 **Pathologic physiology of kidneys and urin**
- 1 Urinary calculi
- 2 Urin in disease
- 21 Urin in diabetes Chemistry of glycosuria For physiology of
 diabetes see 612.35216
- 22 Urin in albuminuria Albuminuria in general
 See also 612.461269, 612.4642 and 616.634
- 23 Resection and lesion of kidneys, experimental and pathologic
 Ligature of ureter, etc.
- 231 Uremia See also 616.638
- 26 Urin in fever
- 6 **Abnormal substances in urin**
- 61 Acetonuria Acidosis
- 62 Chyluria
- 63 Other abnormal products of metabolism
- 631 Glycuronic acid See also 612.39621
- 64 Products of intestinal putrefaction Indican
- 67 Biliary pigments Choluria
- 68 Albuminoses and peptones
- 69 Hematuria and hemoglobinuria
- 7 Urinary fermentation Putrefaction of urin
- .467 **Urinary discharge**
- 1 Physiology of bladder, ureters and urethra
- 11 Micturition
- 2 Absorption in urinary passages
- 3 Innervation of vesical apparatus
 For prostate see 612.617 For action of nervous system on func-
 tion of kidneys see 612.4638
- .49 **Other glands and secretions**
- .491 **Bone marrow**
- .492 **Hypophysis or pituitary gland Somatic brain**
- .493 Scent glands of animals
- .494 **Bartholini's glands**
- 495 **Carotid gland**
- 499 **Other glands**
 See also 612.664, 612.702

- 612.5 **Animal heat**
- .51 Sources Thermogenesis Calorimetry
 - .511 **Direct calorimetry**
 - 6 Calorimetry in disease
 - .512 **Indirect calorimetry**
 - 1 Influence of alimentation
 - 3 Effect of respiration
 - .52 Loss of heat Radiation Thermolysis
 - Conduction of animal tissues
 - .521 **Cutaneous radiation**
 - 1 Physiology of clothing
 - .523 Loss by pulmonary evaporation
 - .524 " " cutaneous evaporation
 - .53 Regulation of temperature Heat balance
 - Thermotaxis
 - .531 Influence of vasomotors
 - .532 " " muscular movement
 - See also 612.7453
 - .533 Effect of perspiration
 - .534 " " respiration Thermic polypnea
 - .535 Thermic centers
 - .54 Other conditions affecting temperature and thermogenesis
 - .541 Effect of baths
 - .543 " " inanition
 - See also 612.391
 - .544 Effect of poisons
 - .55 Variations in production and regulation of heat
 - .556 In disease: fevers
 - .56 Temperature of body
 - .563 Thermic topography
 - .58 Hibernating animals
 - .59 Heat and cold; effect on organism
 - Subdivisible with o like 612; e. g. 612.59074 Effect on muscles
 - 612.5908 " nervous system
 - See also 612.01443
 - .591 Effect of heat Deth from heat Thermic rigidity
 - .592 Effect of cold Deth from cold Rigidity from cold

- 612.6 Reproduction and generation Development**
- .601 **Spontaneous generation**
See origin and beginnings of life, 576.1
 - .602 **Transplantation Animal grafting**
May be divided by organs like 612
 - .603 **Cicatritization Regeneration**
May be divided by organs; e. g. 612.60344 Regeneration of thyroid
612.60384 " " eye
 - .604 **Reproduction of lower organisms**
Protozoa, etc.
 - 1 Asexual: fission, division, gemmation or budding or sprouting
 - 2 Sexual: conjugation or concrescence
 - 5 Variations: alteration of generations or metagenesis, pedogenesis, parthenogenesis
 - .605 **Morfogenesis in general Heredity**
See 575 Evolution
 - 1 Heredity
 - 2 Variation, including artificial
 - 3 Hybridization
 - 4 Tumors
Only for physiologic aspect, for pathology see 616.992
 - .606 **Proportion and determination of sexes**
See also Biology, 577.8 Sexes in nature, sexuality
 - .607 **Consanguinity Incest**
 - .698 **Hermatroiditism**
 - .609 **Theory of evolution Natural selection, darwinism**
See 575 Evolution
 - .61 **Male functions of generation**
For semen see 612.616
 - .612 **Erection**
Including also the function in general, in either or both sexes See
also 612.188
 - .613 **Copulation and fecundation**
 - 1 Artificial "
 - 2 Parthenogenesis
21 Artificial parthenogenesis
 - .016 **Testicles Orchitic fluid Sperm**
 - 1 Effects of castration Resection or injury, experi-
mental or pathologic, of testicles or of sexual glands
in general
 - 2 Physiology of spermatozoa
 - 3 Testicles as internal glands Interstitial cells
 - .617 **Appendages of male organs: seminiferous ducts, seminal vesicles**
 - .62 **Female functions of generation Ovulation**
See also 612.612 and 612.6161
 - .621 **Physiology of ovaries**
See also 612.6303
 - 1 Ablation or injury of ovary, experimental or patho-
logic
See also 612.6161
 - .622 **Physiology of ovum**
 - .627 **Physiology of uterus**
 - 1 Uterin circulation
 - 8 Innervation of uterus

- 612.63 Impregnation Pregnancy Parturition
 See also 612.612
 01 Period of pregnancy
 03 Ovary in pregnancy Corpus luteum
- .64 Development of embryo
 For embryology see 611.013; for abnormal development see 611.012 Teratology, 617.3 Deformities
- .646 Physiology of embryo
- .647 " " fetus
- .648 " " newborn
- .649 Appendages of embryo Amniotic fluid
 See also 611.0138 Fetal appendages (in embryology)
- .65 Growth after birth
 See also 612.64
- .651 Metamorfosis of lower animals Larvae
- .66 Period of full development
- .661 Puberty
- .662 Menstruation
- .663 Fecundity
- .664 Lactation and milk
 Physiology of mammary glands
- 1 Physics and chemistry of milk
- 12 Sugars
- 13 Fats Butter
- 14 Albuminoids
- 16 Mineral substances
- 17 Lactic fermentation Milk ferments
- 171 Milk curdling ferments Coagulation of milk
- 18 Other constituents
- 181 Abnormal substances
- 19 Comparison of milk of various animals
- 191 Human milk
- 3 Lactic secretion
- 31 Quantity
- 32 Formation of sugars
- 33 " " fats
- 34 " " albuminoids
- 35 Colostrum
- 36 Effect of various agents on secretion
- 4 Action of poisons on milk secretion and their elimination
- 5 Physiologic morfology of milk
- 6 Pathologic changes in lactic secretion
- 7 Digestion of milk
- 8 Innervation of mammary glands
- .67 Period of decline Deth
 See also 577.7
- .68 Longevity
 See also 368.3 Life insurance; 519.5 Probabilities; 614.12 Deth rates

- 612.7 Motor and vocal apparatus Skin**
- .71 **Protoplasm**
See also 612.014 General physiology of cells and organisms
 - .72 **Vibratil cilia**
 - .73 **Smooth muscle**
Divided like 612.74
 - .74 **Striped muscle**
Muscle in general, including smooth muscle
 - .74I **Muscular contraction**
 - I **Myografy**
 - 12 Single contraction of muscle fiber Jerk contraction
 - 13 Tetanic contraction
 - 14 Tonic contraction
 - 15 Influence of chemic substances on muscles
 - 16 Myografy in disease
 - 2 Change of volume of muscle
 - 3 Muscle wave
 - 4 Elasticity of muscle
Myotonometry Effect of weight Tension
 - 6 Muscular irritability Influence of blood
 - 61 Circulation in muscles
 - 62 Effect of stimulation
 - 63 " " electricity
 - 7 **Latent period**
Time elapsing between moment of stimulation and response by an activ tissue
 - 8 **Muscle murmur**
 - 9 **Physiologic morfology of muscles**
Histologic phenomena of contraction
 - .742 **Muscles after deth Rigor mortis**
 - I Chemic phenomena after deth: autolysis
 - .743 **Electric phenomena of muscles**
 - .744 **Chemistry of muscle**
 - I **Normal composition**
 - 11 **Carbohydrates**
See also 612.35218 Glycogen of muscles
 - 14 Albuminoids
 - 15 Other organic substances
 - 16 Mineral substances
Including water Muscle salts
 - 17 Gases
 - 2 **Chemic effects of muscular contraction**
 - 21 **Fatigue**
Ergografy Dynamometry Work in general
 - 22 Consumption of oxygen and production of CO₂ in work
 - 23 Function of carbohydrates
 - 24 Relation of chemic changes to work Metabolism in relation to work
 - .745 **General effect on organism of muscular contraction or work**
See also 612.532
 - I **Dynamic effects**
 - 3 **Thermic** "
 - 5 **Relations between work and heat**

- 612.746 Pathologic physiology of muscles
 1 Contractures
 4 Tremors Shuddering
 5 Nutrition of muscles Atrophy Degeneration
 Regeneration
 Including nerv influence See also 612.818
- .75 Bones, joints and connectiv tissues
 .751 Chemic composition of bone and connectiv tissue
 See also 612.398146
 1 Bone
 2 Cartilage
 3 Connectiv tissue
- .752 Nutrition of bones
 .753 Growth, cicatrization and regeneration of bone
 .754 Periosteum Perichondrium
 .755 Tendons
- .76 Locomotion
 Principles of animal mechanism; comparativ study of locomotion prefer-
 ably clast in 591.47
- .761 Chronofotografy: technic
 .763 Special movements Combined movements
 Physiology of violin playing, etc.
- .766 Human locomotion
 1 Physiology of exercise and work
 2 Rest
- .767 Animal locomotion Special organs of locomotion
 Swimming bladder of fishes
- .768 Flight
- .769 Biologic adaptation of movement
 .77 Electric and phosphorescent animals
 Preferably clast 591.59
 .771 Electric animals
 .772 Phosphorescent, animals
- .78 Voice and speech
 See also 784.9 Vocal hygiene; 808.5 Elocution; 534.7 Sound
- .781 Sensibility of larynx
 .782 Movements and innervation of larynx
 1 Influence of spinal accessory nerv
 See also 612.819923
 2 Influence of pneumogastric
 See also 612.819917
 3 Laryngoscopy
 4 Movements of glottis
 5 Epiglottis
- .783 Artificial larynx
 .784 Singing Timbre, quality Voice register
 .785 Larynx in deglutition and other laryngeal functions
 See also 612.312
 .786 Organs of sound in lower animals
 .788 Larynx of birds

612.789

Speech Language

- 1 Function of mouth and nose
- 2 " " lips and soft palate
- 3 Innervation of organs of speech Aphasia
 See also 616.855
- 4 Vowels and consonants
- 5 Ventriloquism
 See also 791 Ventriloquism as an amusement

.79

Skin

Chemic composition

.790:5

.791

Absorption

See also 612.384

- 1 Penetration by solids
- 2 Absorption of fats
- 3 " " solutions
- 4 " " liquids
- 5 " " gases

.792

Cutaneous glands and secretion

- 1 Swet Chemic composition
- 12 Toxic action of swet
- 4 Action of chemic substances on swet secretion
 Elimination of poisons by swet
- 42 Physiologic morfology of swet
- 6 Pathologic changes of swet
- 8 Action of nervous system on cutaneous exhalation
- 9 Other cutaneous secretions

.793

Cutaneous respiration

- 4 Effect of suspended transpiration; closing pores by
 liniments, etc.
- 5 Effect of chemic substances on skin
 See also 612.7924

.794

Cutaneous sensibility

.795

Electric conductivity and resistance of skin

See also 612.014422

.796

Chromatophores and skin pigments

.798

Trofic nerves of skin

.799

Growth and physiology of nails and hair

- 612.8 Nervous system**
- .801 Theory of nervous system and innervation**
 - 1 Dynamogenesis and inhibition
 - 2 Action of nervous system on chemic phenomena
 - 3 Effect on morfogeny and evolution
 - See also 612.605
 - .81 Peripheral nervous system Nerv fibers**
 - .811 Distinction between sensory and motor nervs**
 - 3 Ganglions of sensory nervs
 - 4 Influence of sensibility on movement and of movement on sensibility
 - .812 Recurrent sensibility**
 - .813 Electric phenomena of nervs and muscles**
 - Muscle-nerv experiments as indicativ of nervous process
 - For muscle phenomena see 612.743
 - 2 Negativ variations
 - 3 Electrotonus
 - .814 Chemic and thermic phenomena of nervous stimulation**
 - For stimulation of nerv centers see 612.8222
 - .815 Physiologic morfology of nervous stimulation**
 - 1 Sensory terminations
 - 2 Motor "
 - .816 Irritability of nervs and muscles**
 - Nerv-muscle or nerv-gland physiology
 - 1 Action of electricity
 - 2 Theories of nerv waves
 - 3 Nervous conductibility
 - 4 Effect of blood on nervs Anemia
 - 5 Rapidity of nerv waves
 - 6 Nerv fatigue
 - 7 Action of chemic substances on nervous irritability
 - .817 Effect of nervs on muscles and glands**
 - 1 Chemic substances Curare poisons
 - 2 Voluntary contraction
 - 3 Tonicity Atrofy of muscles after cutting nervs, etc.
 - See also 612.7465
 - .818 Trofic nervs**
 - 5 Degeneration, regeneration and cicatrization
 - 1 Degeneration 2 Regeneration 3 Cicatrization

612.819

Special nerves

Whenever possible class according to function rather than according to a particular nerve, classing here only special nerve physiology

- 1 1st pair: olfactory
- 2 2d pair: optic
See also 612.843
- 3 3d pair: motoroculi or oculomoto
- 31 Innervation of iris
See also 612.8422
- 32 Innervation of eyelids
See also 612.847
- 33 Innervation of eye muscles
- 4 4th pair: trochlear or pathetic
- 5 5th " : trigeminal
- 52 Sensory action
- 53 Trofic action
- 6 6th pair: external oculomoto or abducent
- 7 7th " : facial
- 71 Effect on facial muscles
- 73 " " respiration
- 74 " " hearing
- 75 " " deglutition and taste
- 77 " " salivation Chorda tympani
See also 612.31387
- 78 Pathology Facial paralysis
- 8 8th pair: auditory
See also 612.8585
- 9 9th pair: glossopharyngeal
- 91 10th " : pneumogastric or vagus
- 911 Effect on hart and circulation
See also 612.1781
- 912 Effect on respiration
See also 612.287
- 913 Effect on digestiv organs
See also 612.328, 612.338, 612.348, 612.358, 612.368
- 915 Effect on kidneys and other glands
See also 612.4
- 917 Effect on voice production
See also 612.7822
- 918 Section of vagus and pneumcgastric
- 92 11th pair: spinal accessory
- 921 Anastomosis with vagus
- 922 Innervation of respiratory organs
See also 612.28
- 923 Innervation of vocal organs
See also 612.7893
- 93 12th pair: hypoglossal
- 94 Spinal nervs in particular
- 941 Phrenic nerve

- 612.82 Nervous centers Brain
 .821 Physiologic psychology
 Usually better class in 130 Mind and body
- 1 Time of reaction to stimulation Psychometry
 2 Attention Memory Association Imagination
 3 Instinct Intelligence Emotions Sensibility
 31 Comparativ psychology
 311 Nonautomatic actions of animals Anticlisis
 312 Automatic " " "
 For physiologic aspect see 612.829
 313 Instincts of animals Behavior See also 591.51
 33 Emotions Sensibility
 34 Inhibition of movement Will Habit Impulse
 35 Associated movements
- 4 Action of poisons on intelligence
 See also 613.8 Hygiene of nervous system
 " " 615.9 Toxicology
- 41 Alkaloids
 42 Nonalkaloid anesthetics
 See also Therapeutics, 615.96 Cerebral poisons
 44 Alcohol
 See also Therapeutics, 615.964 Alcohol as cerebral poison
 Pathology 616.861 Alcoholism
- 5 Effect of disease on intelligence
 6 Psychic reflexes
 7 Sleep Hypnotism
 See also 135 Sleep, Dreams
 71 Hypnotism See also 134 Mesmerism, Hypnotism
 73 Theories of sleep
 74 Cerebral circulation in sleep
 75 Chemic phenomena of organism in sleep
 76 Dreams
- 8 Sense in general and theories of perception
 88 Psychophysical laws
 89 Sensory delusions
 For optic illusions see also 612.84374
- .822 Nerv cells and nerv centers
 1 Chemistry of nervous tissue
 Metabolism in nervs
 2 Chemic phenomena of nervous excitation
 For stimulation of nerv fibers see 612.814
 3 Electromotiv phenomena of nervous excitation
 4 Thermic " " " " "
 5 Physiologic morfology " " "
 53 Effects of fatigue
 54 " " poisons
 56 Degeneration and regeneration of centers
 6 Effects of removal and experimental, pathologic or
 teratologic lesion of nerv centers
 61 Movement in a circle (motus circularis, manège)
 7 Decapitation
 8 Action of central nervous system on chemic
 phenomena of organism
 See also 612.01538, 612.8012
 81 Effect of chemic changes on centers

- 612.823** **Weight and general morphology of brain**
 5 Conduction in centers
- .824** **Cerebral circulation**
 1 Neurolymf, neurolympha or cerebrospinal fluid
 Meninges Choroid plexus
 2 Brain movements
 3 Cerebral vasomotors
 4 " anemia
 5 Pressure on nerv centers
 55 Compression and concussion of brain Abnormal pressure
 6 Temperature of blood in nerv centers
 Effect of abnormal pressure
- .825** **Cerebral convolutions (cortex)**
 1 Cortical excitability
 2 Psychomotiv centers Localizations
 23 Inhibitory actions
 See also 612.8338
 24 Localization in man
 249 Speech Aphasia
 See also 612.7893
 25 Localization in animals
 26 Topografy of localizations
 261 Frontal lobe
 262 Occipital "
 263 Parietal "
 264 Temporal "
 265 Central "
 266 Olfactory "
 3 Cortical epilepsy
 See also 616.853
 5 Sensory functions of convolutions
 Convolutions as seat of senses
 54 Sight
 55 Hearing
 56 Smell
 57 Taste
 58 Muscular sense
 See also 612.885
 59 Touch
 See also 612.88
 8 Intellectual functions
 Only for physiology of these functions
- .826** **Cerebral ganglions, commissures, etc.**
 1 Optostriate body and callosum
 Or optic thalami, striatum and callosum
 2 Conduction in the brain
 See also 612.8235
 3 Crura or cerebral peduncles Epiphysis Infundibulum
 5 Quadrigeminum Optic lobes
 7 Cerebellar peduncles or prepeduncles
 8 Pons

612.843

Optic nerv Retina

See also 612.8192 2d pair of cranial nervs; optic

- 1 Physiologic morfology Retinal purple
- 12 Ophthalmoscope
- 13 Retinal circulation
- 14 " purple
- 15 Physiologic morfology of retina
- 2 Irradiation
- 3 Color sense Chromatic sensibility
- 31 Color sight
 - Power to distinguish colors
 - For color blindness see 612.8455; 617.75
- 32 Sensitiveness to color
 - For pathology of chromatic sensibility see 612.8455
- 34 Mixture of colors
- 35 Contrast of colors
- 4 Entoptic phenomena
- 5 Persistence of retinal impressions
- 6 Field of vision Visual acuteness and sensibility
- 61 Photometry
 - Photometric technic
- 62 Field of vision
- 63 Visual acuteness and sensibility
- 7 Conduction in the brain Perception
- 71 Histology of fibrillae Center of sight
- 72 Optic perceptions Localization of image in space
- 721 Binocular perception Stereoscopy Perception of
 - distance, size and form
 - Perception of differences in hight of surface For movement
see 612.8462
- 73 Impression of color suggested by sound, auditus coloratus
- 74 Optic illusions
- 75 Observations on those born blind
- 78 Degenerations of optic nerv and fibrillae

.844

Refractory apparatus Ocular refraction

See also 612.8421

- 1 Crystallin lens
- 4 Aqueous humor
- 7 Vitreous humor

.845

Functional disorders or pathology of sight

See also 617.75

- 1 Myopia
- 2 Hypermetropia
- 3 Astigmatism
- 4 Presbyopia
- 5 Daltonism Color blindness
 - See also 612.84331 Color sight; 617.75 Disorders of vision
- 6 Hemeralopia

- 612.846 **Movements of eye**
- 2 Binocular vision
For perception see 612.843721
- 3 Action of 3d cranial or oculomotor nerve
- 4 " " 4th " or trochlear nerve
- 6 " " 6th " or abducent nerve
- 8 Strabismus Diplopia
- .847 **Palpebral and lacrimal apparatus**
- .85 **Hearing**
- .851 **External ear: functions**
- .854 **Middle ear**
- .855 Tympanic membrane or drumhead Tympanum
- .856 Eustachian tube
- .857 Bones
- .858 **Internal ear**
- 1 Conduction of sound in internal ear
- 2 Utricle Saccule
- 3 Semicircular canals
See also 612.8863 and 616.841 Vertigo
- 4 Cochlea Corti's organ or fibers Spiral organ
- 5 Acoustic nerve
- 6 Endolymph
- 7 Acoustic perception Conduction of acoustic excitation in the brain
- 71 **Auditory acuteness**
- 72 **Auditory center in brain**
See also 612.82555
- 73 **Subjective sensations**
- 74 **Musical physiology and psychology**
Distinction of tones and quality or tone color (timbre)
- 75 **Binaural hearing**
- 751 Localization of sound in space Estimation and effect of distance
- 76 **Sensibility of living beings to sound and vibrations**
- Otocysts
- 8 Auditory reflexes
- .86 **Smell**
See also 612.82556 Seat of smell
- .867 **Perceptions** Conduction in the brain
- .87 **Taste**
- .875 **Function of lingual nerve**
See also 612.8195
- .877 **Function of chorda tympani**
See also 612.81977
- .879 **Function of glossopharyngeal nerve**
See also 612.8199

- 612.88 Touch Tactil sense Equilibrium
- .881 Notion of space
 - .882 Sense of temperature
 - .883 Sense of pressure
 - Including all related phenomena; e. g. tickling
 - I Esthesiometers
 - .884 Sensibility to pain
 - .885 Muscular sense Power sense
 - .886 Sense of equilibrium
 - I Sense of direction and orientation
 - 2 Seasickness
 - 3 Vertigo
 - See also 612.8583
 - 9 Function of special organs
 - Function of lateral line of fishes and other special organs of cwe animals
 - .887 Anesthesia, hyperesthesia, synesthesia
 - .89 Sympathetic nervous system
 - .8903 Trofic action
 - .8905 Reflex phenomena
 - .891 Cervical ganglions and plexus
 - .892 Thoracic " " "
 - .893 Abdominal " " "
 - .896 Action on eyes; iris
 - See also 612.8422
 - .897 Action on hart
 - See also 612.1782
 - .898 Action on digestiv tract; alimentary canal
 - See also 612.3 and special subdivisions
 - .899 Effect on blood vessels
 - See also 612.18

613 Personal Hygiene

Care of Health; Prophylaxis; Individual Health; Laws of Health.

.02, Compendis; .03, Dictionaries, Cyclopedias; .04, Essays; .05, Periodicals; .06, Societies; .07, Study and Teaching; .08, Sanitary Appliances; .09, History. Description, Reports, etc., divided like 930-999.

.1 Air and Light.

For Air Analysis, see 543.7; Air Pollution, 614.7; Ventilation, 628.8.

.11 Climate. Acclimation. See 551.5, Meteorology; 615.834, Therapeutics; 614.42, Geographical distribution of disease.

.12 Health Resorts. Mountain. Sea-shore.
Regions exempt from special diseases.

.13 Seasons. Time of Day.

.14 Malaria. Moisture. Ground Air. See Public Health, 614.775, 614.773 and 614.772.

.15 Purification of Air.

.16 Special Influences. Ozone, Electricity, etc.

.17 Quantity of Air Necessary.

.18 Temperature. See also 536.5, Heat; 551.52, Meteorology.

.19 Sunlight.

.2 Food. Dietetics.

For Food Analysis, see 543.1; Adulterations, 614.31; Digestion and Nutrition, 612.3.

.21 Dietaries.

Including food for special classes of people; literary men, soldiers, etc.

.22 Food for Infants.

.23 Food for the Sick.

Including means for giving nutrition, baths, enemata, forced alimentation, etc.

.24 Fasting. Famine. Starvation.

.25 Excess of Food.

.26 Vegetable Food.

.27 Fruits.

.28 Animal Food. Meats.

.29 Fish, Oysters, etc.

.3 Beverages.

For alcoholic beverages, see 613.81 and 178, Temperance Ethics; Inspection of beverages, 614.34.

.31 Water as a Beverage.

.32 Impurities in Water and Ice. See also 628.16, Water supply of towns.

.33 Microscopical Analysis. For Chemical Analysis, see 543.3.

.34 Biological Analysis.

.35 Purification. Filtration, Boiling, Chemical, etc. See also 628.16, Water Supply.

.36 Cold Drinks.

.37 Hot Drinks. Tea, Coffee, etc. See also 614.347, Adulterations.

.38 Mineral Waters, Carbonated Waters, etc. See also 614.348, Adulterations; 615.79, Therapeutics

.39 Other Beverages.

613.4

Cleanliness of Body. Clothing.

See also 646, Clothing, Toilet, etc.; 397, Customs, Care of Person, Bathing, Toilet. For Therapeutic baths, electric, sulphur, etc., see 615.67.

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Baths.

Warm.

Cold. For Swimming, see 796.

Douche or Shower.

Sea. Salt.

Hot Air. Turkish. Russian. Roman, etc.

Public.

Clothing.

1, Material, wool, cotton, etc.

2, Quantity.

3, Cleanliness.

4, Pressure. Corsets, garters, tight boots, support from hips, etc.

.49
.5

Care of special parts of body.

Human Habitation and Resort.

For Heating, see 697; Ventilation, 628.8; House drainage, 628.6; Sanitation of towns, 628.4; Industrial sanitation, 628.5.

These subjects, partly Public and partly Private Hygiene, are for convenience grouped together here.

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Homes.

Hotels.

Tenements.

Schools. Colleges. See School hygiene, 371.7.

Churches, Theaters, Halls, etc.

Hospitals. Asylums.

Prisons. Reformatories.

House Furnishing.

1, Bed and Bedding.

2, Curtains. Tapestries.

3, Carpets. Rugs. Floors.

4, Wall Paper.

9, House Cleaning.

.6

Hygiene of Employment.

For Labor of children, see 331.3; Mining dangers and accidents, 622.8; see also Laboring classes, 331.8; Industrial sanitation, 628.5; Nuisances, 614.7.

.61

Over-hours. Over-work.

.62

Occupations made Injurious.

By Inhalation of Vapors and Gases.

Bleachers, match-makers, lard refiners, etc.

.63

By Inhalation of Dust or by Absorption.

Grinders, stone-cutters, millers, wool operatives, hair pickers, type founders, grocers, etc.

.64

By Elevated, Low, or Variable Temperature.

Bakers, forgemen, mariners, fishermen, farmers, laborers, etc.

.65

By Over-use of certain Organs. By Constrained Attitude and Sedentary Life.

Engravers, public speakers, copyists, printers, salesmen, clerks, literary men, etc. See also Mental hygiene, 131.

.66

By Accidents. See Public health, 614.8, Protection from accidents.

Machinists, quarrymen, caisson-workers, manufacturers of explosives, etc.

.67

Military Hygiene. Barracks, Camp and Tent Life.

.68

Naval Hygiene. Ship Life.

.69

Hygiene of Travel and Exploration.

- 613.7 **Hygiene of Recreation and Sleep.**
- .71 **Gymnastics.** See also 371.73, School Hygiene, Care of Body
For Curative gymnastics, see 615.82, Massage.
 - .72 **Athletics and other Muscular Exercise.**
See also 796, Out-door sports.
 - .73 **Training and Overstrain.** See also 371.75, Championship games.
 - .74 **Amusement or Play.**
See also 796, Out-door sports, and 371.74, Recreations.
 - .75 **Parks.**
Some subjects more properly placed in Public Health, are grouped here by attraction.
 - .76 **Vacations.** See also 371.23, School Vacations.
 - .77 **Holidays.** See also 371.23, School Holidays.
 - .78
 - .79 **Rest and Sleep. Late Hours.** See 613.86, Insomnia.
 - .8 **Hygiene of Nervous System.**
Including the action of Stimulants and Narcotics. See also 615.78, Drugs acting on Nervous System; 615.95, Neurotic Poisons.
For Mental overwork, see 131, Mental Hygiene. See also 178, Temperance
 - .81 **Alcohol.** See also Temperance, 178; Beverages, 613.3; Inspection of Beverages, 614.34.
 - .82 **Opium and Hashish.** See also 178.8.
 - .83 **Chloral and Caffeine.** See also 178.8.
 - .84 **Tobacco.** See also 178.7.
 - .85 **Other Narcotics.**
 - .86 **Insomnia.** See also 613.79, Rest and Sleep.
 - .87 **Morbid Habits. Bad Social Customs.** See also Social Ethics, 177.
 - .88 **Luxury. Privation.**
 - .89 **Celibacy. Monogamy. Polygamy.**
See also Polygamy and Monogamy, 173.2; Sexual Ethics, 176; Celibacy of Clergy, 254; Asceticism, 248.
 - .9 **Hygiene of Offspring. Heredity.**
See also Heredity, 575.1.
 - .91 **Congenital Defects of Body.**
See also Monstrosities, 573.9; and Orthopædic Surgery, 617.3.
 - .92 **Inherited Mental Disability.**
See also Mental heredity, 136.3; Mental derangements, 132; and Mental physiology and hygiene, 131.
 - .93 **Transmitted Disease.**
See also special diseases in 616.
 - .94 **Stirpiculture. Eugenics.**

614 Public helth

Public hygiene Public sanitation State medicin Preventiv medicin
 See also 628, Sanitary engineering; 352.4 Boards of helth
 .02 Compendis .03 Dictionaries, cyclopedias .04 Essays .05 Periodicals .06 So-
 cieties, conventions .07 Education .08 Sanitary appliances, exhibitions .09 His-
 tory, description, legislation, reports, etc. divided like 930-999. e. g. 614.09.42
 Public helth in England

- .1 **Registration and vital statistics** See also 312 Population
- .11 Births and birth rates
- .12 Deths and deth rates
 Divided geografically like 930-999, e. g. Deth rate in England, 614.1242
- .13 Mortality at different ages
 For life insurance, life tables, biometry, etc. see Life insurance, 368.3,
 and Life contingencies, 519.5; Longevity, 612.68
- .131 Stillbirths
- .132 Infant mortality
- .133 Mortality in childhood
- .134 " " adult life
- .135 " " old age
- .14 Mortality of sexes, races, etc.
- .141 " " the sexes
- .142
- .143
- .144 " " races: colored, white, indian, etc.
- .145 " " city and country
- .146 " " different occupations See also 613.6
- .147 " " from special diseases Causes of deth
- .15 Morbidity
- .16
- .17 Marriage
- .18 Divorce See also 173.1 Family ethics
- .2 **State control of medicin**
- .21 Medical education and degrees See 610.7; 378.2 Academic degrees
- .22 Anatomy and vivisection laws See 179.4 Ethics
- .23 Expert testimony and other medico-legal relations
 See 340.6 Medical jurisprudence
- .24 Registration of physicians, dentists, pharmacists, etc.
 License to practis
- .25 Regulation of medical practis
 See 174.2 Professional ethics, physicians
- .26 Quackery and malpractis
- .27 Nostrums and patent medicin See also 614.353 Adulterations
- .28 Sale of poisons See 615.9 Toxicology
- .29 Medical police

7

- 614.3 Adulterations: inspection of articles liable to affect public health Pure food laws**
- Public analysts State laboratories For chemic analysis see 543
- .31 Inspection of food For chemic analysis see 543.1; Hygiene 613.2
- .311 Sugars Sirups Confectionery
- .312 Cereals Starches Bred
- .313 Lards Fats Oils See 614.325-6 Butter, oleomargarin
- .314 Spices Condiments
- .315 Yeast Baking powders Cream of tartar
- .316 Fresh food Vegetables, fruits
- .317 Meats Fish (fresh)
- .318 Cand or preservd food Vegetables, fruits
- .319 Meat Fish Oysters (preservd)
- .32 Milk and milk products
- .321 Milk analysis See also chemistry, 543.2; dairy, 637.1277
- .322 Milk of known purity
- .323 Milk sold to consumer
- .324 Cream Skimd milk Condensd milk Buttermilk Kumiss
- .325 Butter and its imitations
- .326 Oleomargarin
- .327 Cheese and its imitations
- .33 Other articles of food
- .34 Inspection of beverages
- For chemic analysis see 543.1; hygiene, 613.3
- .341 Fermented
- .342 Wine
- .343 Brewd
- .344 Beer
- .345 Distild
- .346 Fruit drinks: lemonade, shrub, etc.
- .347 Tea Coffee Chocolate Coco See also 613.37, Hygiene
- .348 Mineral waters Soda water
- See also 613.38, Hygiene; 615.79 Therapeutics
- .349 Mixt drinks
- .35 Inspection of drugs For chemic analysis see 543.4
- .351 Officinal or pharmacopeial drugs
- .352 Nonofficial drugs
- .353 Empiric or patent medicins See also 614.27 State control
- .354 Cosmetics
- .355 Poisonous cosmetics
- .36 Inspection of tobacco
- .37 Inspection of pigments, wall and other papers, textil fabrics, toys, etc.
- .4 Contagious and infectious diseases: general**
- .41 Causes and origin
- See 589.95 Bacteria, microbes; 616.01 Germ theory of disease
- .42 Geografic distribution Climatology
- .43 Modes of propagation and communication

MEDICIN: PUBLIC HELTH

- 614.44 Prevention and restriction See also Ambulances, 614.882
 .45 Isolation, lazarettos, etc.
 .46 Quarantine, etc.
 .461 Maritime quarantine
 .462 Inland “
 .463 Control of rags, etc.
 .47 Protectiv inoculation
 .471 Against smallpox See also 616.912, Pathology
 .472 Variolation
 473 Vaccination
 1 Bovine vaccination
 2 Humanized vaccination
 3 Vaccinal syphilis
 4 Revaccination
 5 Vaccinisation
 6 Revaccinisation
 7 Retrovaccination
 8 Compulsory vaccination
 9 Optional vaccination
 .474 Antivaccination
 .475 Against cholera See also 616.932, Pathology
 .476 “ yellow fever See also 616.928 Pathology
 .477 “ hydrophobia Pasteurism
 See also 616.953 Pathology
 .48 Disinfection
 Houses, clothing, rags, workshops, cars, ships, camps, air, soil, persons,
 sewers, vaults, excreta. Ded, see 614.64 Embalming, etc.
 .481 Fumigating and other apparatus
 1 Stationary
 2 Portable
 .482 Disinfectants Antiseptics Deodorizers
 Treated with reference to public helth. See also Materia medica
 615.777 and 615.778
 .483 Heat
 .484 Chemic disinfectants
 .485 Carbolic
 .486 Salicylic
 .487 Chlorids
 .488 Copperas
 .49 Epidemics Plagues
 .5 Contagious and infectious diseases: special
 These heds are for public helth discussions only. For treatment, etc. see
 Pathology, 616
 .51 Filth diseases
 .511 Typhoid or enteric fever
 .512 Difttheria
 .513 Diarrheal diseases
 .514 Cholera
 .515 Cholera-infantum
 .516 Dysentery
 .517 Diarrhea

- 614.52 Exanthemata
 - .521 Smallpox
 - .522 Scarlet fever
 - .523 Measles
 - .524 Rötheln, rubella, rubeola
 - .525 Chickenpox
 - .526 Typhus
- .53 Malarial fevers
 - .531 Intermittent fever
 - .532 Remittent fever
- .54 Other contagious and infectious diseases
 - .541 Yellow fever
 - .542 Phthisis Tuberculosis
 - .543 Whooping cough
 - .544 Mumps
 - .545 Puerperal fever See also 618.72
 - .546 Leprosy
 - .547 Syphilis
 - .548 Gonorrhoea
- .55 Parasitic diseases
- .56 Diseases communicated from lower animals
 - .561 Anthrax Charbon
 - .562 Trichiniasis
 - .563 Hydrophobia
 - .564 Glanders
- .6 Disposal of the dead**
 - See customs, 393 Treatment of the dead
 - .61 Burial
 - .611 Earth burial
 - .612 Tomb burial
 - .613 Burials in churches Intramural
 - .614 Use of perishable coffins
 - .62 Cremation Crematories
 - .63 Transportation of the dead
 - .64 Embalming and disinfection of the dead Use of ice
 - See 614.48 Disinfection; 615.777 Disinfectants
 - .65 Effect of cemeteries on health
 - .651 By water pollution
 - .652 " air " " "

614.7

Hygiene of the air and ground Nuisances

See 613.1 Air (Hygiene); 613.6 Hygiene of employment; 628.5 Industrial sanitation

- .71 Air pollution by dust and smoke [works
- .72 Air pollution by noxious gases, mineral trades, chemic
- .721 Carbon compounds
- .722 Carbonic oxid, carbonic acid, carburetted hydroger.
- .723 Illuminating gases Gas works
- .724 Mineral oil refining
- .725 Sulfur compounds
- .726 Chlorin “
- .727 Nitrogen “
- .728 Phosphorus “
- .729 Other
- .73 Air pollution by vegetable trades
- .731 Brewing
- .732 Distilling
- .733 Vinegar making
- .734 Sugar refining
- .735 Charcoal burning
- .736 Varnish making
- .74 Air pollution by animal trades
- .741 Slaughter houses Abattoirs Fish
- .742 Rendering works Boneboiling Tripe and gut cleaning
- .743 Pork packing Lard refining
- .744 Soap making
- .745 Tanning
- .746 Glue making
- .747 Lampblack
- .748 Commercial fertilizers
- .75 Storage and handling of noxious and offensiv materials
- .76 Other air pollutions See 628 Sanitary engineering
- .761 Stables Stable manure
- .762 Hog stys
- .763 Offal Ded and diseased animals and fish
- .764 Vaults Cesspools Water closets, privies, urinals, night soil
- .765 Sewers and sewer outlets Sewer gas
- .77 Conditions of soil as affecting helth
- Topografy Sanitary Surveys
- .771 Analysis of soils See 543.7 Chemistry
- .772 Soil moisture
- Hygiene of natural water courses and of marshes. See 613.14 Hygiene
- .773 Ground atmosphere See 613.14 Hygiene
- .774 Solid constituents of soil
- .775 Malarious soils See 613.14 Hygiene
- .776 Recovery of soils from pollution

DECIMAL CLASSIFICATION

- 614.78 Air and ground in towns
- .781 Laying out of towns and streets
- .782 Subways and elevated ways See 628.47 Sanitation of towns
- .783 Parks Air spaces
- .784 Hight of bildings and proportion of occupiable area
 See 614.85 Bilding laws
- .8 Protection of human life from accidents, casualties, etc.
 See 613.66 Hygiene of employment
- .81 Drowning
- .811 Rescue of the drowning
- .812 Resuscitation of the drownd First help Pulmotors
- .82 Suffocation
 By gases, in vaults, mines, etc. ; see also 622.8 Mining dangers. By illuminat-
 ing gases
- .83 Explosions
- .831 Manufacture and storage of explosivs and combustibles
 See also 662 Chemic technology
- .832 Gunpowder
- .833 Dynamite, etc.
- .834 Inspection of kerosene, etc.
- .835 " of illuminating gas
- .836 " of electric apparatus
- .837 " of steam boilers
- .84 Fires
- .841 Fire prevention
- .842 " detection
- .843 " extinction See 352.3 Fire department
- .844 Automatic
- .845 Chemic extinguishers
- .846 Fire engines Water towers See 621.68 Pumping engines
- .847 Fire escapes and other apparatus
- .848 " exits, etc. from public bildings
- .85 Bilding laws Inspection of bildings
 See 614.784 Hight of bildings
- .86 Protection of travelers
- .861 Travel on land
- .862 " " highways
- .863 " " railroads
- .864 " " water
- .865 Lighthouses, buoys, etc.
- .866 Pilots
- .867 Boats, life preservers, etc.
- .868 Rescue of shipwreckt Lifesaving servis
- .87 Exposure to cold Hospice of St Bernard
- .88 Aid to injured
- .881 Ambulance
- .882 Ambulance for contagious diseases See also 614.44
- .883 Bed wagon

- 614.9 **Hygiene of animals** **Veterinary sanitation**
- .91 Infectious diseases of domestic animals
 - .92 Parasites of animals See 591.69 Economic zoology
 - .93 Animal diseases communicable to man See also 614.56
 - .94 Care and housing of animals
 - .95 Feeding of animals
 - .96 Transportation of animals
 - .97 Methods of slaughtering
 - .97I Painless extinction of animal life
- 615 **Materia medica and therapeutics**
- .02 Compendis .05 Pharmaceutic journals .06 Pharmaceutic societies
 - .07 Education, schools of pharmacy .09 History
- .I **Materia medica** **Drugs** **Pharmacology**
- For examining boards, laws, etc. see 614.24 Registration of pharmacists. See also 614.35 Adulteration of drugs; 543.4 Chemic analysis
- .II Pharmacopœias
 - .I2 Dispensatories
 - .I3 Formularies
 - .I4 Prescription writing Posology
- .2 **Inorganic drugs**
- Divided like 546. 615.218 Phosphorus; 615.258 Mercury; 615.272 Iron. See also note to 615.7
- .3 **Organic drugs**
- See also note to 615.7
- .3I Carbon compounds Divided chemically like 547
 - .32 Vegetable products Divided botanically like 580
 - .33 Vegetable products Divided by character
 - 1 Starches 2 Sugar 3 Glucosids 4 Tannins 5 Gums 6 Drugs
 - containing alkaloids 7 Bitters 8 Organic acids
 - .34 Fixed oils and acids
 - .35 Ferments: diastase, pepsin, etc.
 - .36 Organotherapy
 - .37 Serotherapy
 - Opsonic theory; see also physiology, 612.118223
 - Vaccine therapy; see also public health, 614.473 Vaccination
- .4 **Practical pharmacy**
- .5 **Therapeutics** **Action of medicins in general**
- .5I Certainty of medicins
 - .52 Antagonism of medicins
 - .53 Law of similars Homeopathy
 - Homeopathic works are classed with the subjects treated. This head is for Hahnemann's theory only
 - .54 Influence of age
 - Infant therapeutics Therapeutics of old age
 - .55 Influence of sex
 - .56 Influence of environment
 - .57 Influence of idiosyncrasy

- 615.6 Administration of medicins**
- .61 By stomach
 - .62 " rectum
 - .63 " subcutaneous tissue Hypodermic medication
 - .64 " lungs Inhalation See also 612.335 Absorption
 - .65 " veins Transfusion of blood
 - .66 " serous and mucous membranes Peritoneum, vagina, etc.
See also 612.387 Absorption
 - .67 " skin Baths
See also physiology 612.384
- .7 Medicins groupt by effects**
- Treatises on specific drugs, digitalis, ergot, etc. are clast in the divisions of materia medica, 615.2-615.3; iron, 615.272; digitalis, 615.32381
- .71 Drugs acting on circulatory system
 - .711 Stimulants
Alcohol, ammonia, digitalis, coffee, ergot
 - .716 Depressants
Aconite, veratrum group, nitrites
 - .72 Drugs acting on respiratory system
 - .721 Expectorants
 - .726 Errhines Sneezing
 - .73 Drugs acting on digestiv system
 - .731 Emetics
Ipecac, mustard, metallic salts, apomorphin
 - .732 Cathartics
1 Laxat vs 2 Salines 3 Purgativs 4 Hydragogs 5 Drastics
6 Mercurials
 - .733 Anthelmintics
 - .734 Aids to digestion
1 Bitters, tonics 2 Ferments, pepsin, pancreatin, etc. 3 Acids, antacids
 - .735 Demulcents, emollients, etc.
Bismuth, oxalate of cerium, etc.
 - .74 Drugs acting on glandular system
 - .741 Sialagogs (Saliva)
 - .742 Cholagogs (Bile)
 - .743 Diaphoretics (Perspiration)
Pilocarpin, heat, exercise
 - .75 Antipyretics Antiperiodics
Quinin, salicylates, coal-tar products, kairin, antipyrin, antifebrin, cold, baths. See also 613.41 Baths
 - .76 Drugs acting on genito-urinary system
 - .761 Diuretics
Water, citrates, acetates, digitalis, caffein, copaiba
 - .766 Uterins Oxytocics
.Viburnum, ergot, etc.

- 615.77 External agencies
- .771 Irritating
 - .772 Astringents
 - .773 Rubefaciants
 - .774 Epispastics Blisters
 - .775 Escharotics Caustic potassa
 - .776 Protectiv Emollient
 - Fats, oils, powders, starch, bismuth, oxid of zinc
 - .777 Deodorants Disinfectants
 - See 614.48 Disinfection; 614.64 Disinfection of ded
 - .778 Antiseptics Germicides
 - .78 Drugs acting on nervous system See also 615.95 Neurotic poisons
 - .781 Anesthetics Chloroform, ether
 - .782 Hypnotics Chloral, bromids
 - .783 Analgesics Opium
 - .784 Mydriatics Belladonna
 - .785 Excitants Strychnin
 - .786 Depressants Conium
 - .788
 - .789 Other drugs
 - Camfor, valerian, asafoetida
 - .79 Mineral waters See also 613.38 Hygiene; 553.7 Occurrence in nature
 - .8 Other remedies**
 - .81 Mechanical remedies
 - .811 Bloodletting Venesection Cupping
 - .812 Setons and issues
 - .813 Bandages Ligatures
 - .814 Acupuncture
 - .815 Pneumatic aspiration
 - .82 Manipulation Exercise
 - See also Hygiene, Massage, Osteopathy, curativ gymnastics
 - .83 Imponderable remedies
 - .831 Light Blue glass
 - .832 Temperature: heat, cold
 - .833 Moisture
 - .834 Climate See also 613.1 Hygiene
 - .835 Altitude
 - Decrease of oxygen and increase of nitrogen with increasing elevation
 - .836 Pneumatic differentiation
 - .837 Music
 - .84 Electricity Electrotherapeutics Radiotherapy
 - See also 537.87 and 621.3915

- 615.85 Cures
- .851 Mind cure Influence of mind on body
Mental condition, as affecting disease; occupation as remedy
See also 130 Mind and body
- .852 Faith cure Christian science See 265.8 Religion
See also state control of medicin, 614.24; Christian science theology,
230.95; sects 289.5
- .853 Hydrotherapy Water cure
- .854 Food cures: grapes, milk, beef, etc.
- .855 Thomsonianism Herb doctors
- .856 Perkinism Metallic tractors
- .86
- .87
- .88 Patent medicins
- .89 Ancient and medieval remedies
Including those of modern uncivilized peoples
- .9 Toxicology Poisons
For other relations see Poisons, in Relativ index following Tables
- .91 Irritant poisons
- .92 Mineral irritants
- .921 Acid poisons
- .922 Alkalin poisons
- .923 Nonmetallic poisons
- .924 Phosphorus See also 615.218 Drugs
- .925 Metallic poisons
- .926 Arsenic See also 615.219 Drugs
- .927 Mercury See also 615.258 Drugs
- .928 Led Painters colic See also 615.251 Drugs
- .929 Copper See also 615.256 Drugs
- .93 Vegetable irritants
Hellebore, aloes, croton oil, etc.
- .94 Animal poisons
Cantharides, diseased meat, ptomaines, tyrotoxinon, etc.
- .95 Neurotic poisons
See also 615.78 Drugs acting on nervous system
- .96 Cerebral or narcotic poisons Carbonic oxid and acid
- .961 Opium
- .962 Prussic acid
- .963 Cyanids
- .964 Alcohol
- .965 Ether
- .966 Chloroform
- .967 Chloral hydrate
- .97 Spinal poisons
Nux vomica, strychnia
- .98 Cerebrospinal poisons
Aconite, belladonna, lobelia
- .99 Cerebrocardiac poisons
Digitalis, tobacco

616 Pathology Diseases Treatment

May be subdivided by o like 610, if wisht. Use 616.01 for etiology, germ theory, bacteriology, classification of diseases. Use 616.07 for diagnosis, study of disease, and subdivide it as follows: 1 Pulse 2 Tong 3 Eye, skin, etc. 4 Auscultation, percussion 5 Thermometry 6 Chemistry, urin analysis 7 Microscopy, radiology, etc. 8 Pathologic anatomy 9 Postmortem examination

- .1 **Diseases of circulatory system**
- .11 Membranes of the hart
- .12 Hart Angina pectoris
- .13 Arteries
- .14 Veins
- .15 Blood
- .2 **Diseases of respiratory system**
- .201 Croup
- .202 Hay asthma, hay fever
- .203 Influenza, epidemic catarrh
- .204 Whooping cough See also 614.543
- .205 Coryza, catarrh
- .206 Asphyxia
- .21 Nose Naso-pharyngeal space
- .22 Larynx
- .23 Trachea Bronchi Bronchitis Asthma
- .24 Lungs
- .241 Pneumonia, lung fever
- .242 Congestion
- .243 Hemorrhage
- .244 Abscess
- .245 Gangrene
- .246 Phthisis, tuberculosis, consumption See also 614.542
- .247 Embolism and aneurism of pulmonary artery
- .248 Emphysema
- .249 Collapse
- .25 Pleura Pleurisy
- .3 **Diseases of the digestiv system**
- For diseases of teeth see 617.6
- .31 Mouth: tung, fauces Sore throat, quinsy, mumps
See also 614.544
- .32 Pharynx Esophagus
- .33 Stomach Gastritis, dyspepsia, vomiting
- .34 Intestins Hernia, diarrhea, constipation, colic
- .35 Rectum Anus Piles
- .36 Liver Gall bladder Jaundis
- .37 Pancreas
- .38 Peritoneum Omentum Mesentery Peritonitis
- .39 Dietetic diseases
Surfit, starvation, scurvy, dyspepsia *conspicuous*

- 616 .4 **Diseases of lymphatic system and ductless glands**
- .41 Spleen
- .42 Lymphatics: thoracic duct
- .43 Thymus
- .44 Thyroid body Goiter, Graves disease
- .45 Suprarenal bodies
- .5 **Dermatology Skin diseases**
- .51 Inflammatory affections
Diffuse, papular, scaly, nettlerash, hives
- .52 Catarrhal, vesicular, pustular Eczema, shingles
See also 614.561
- .53 Disorders of sebaceous glands
- .54 Hypertrofies Atrofies
Corns, warts, white hair, baldness
- .55 New formations Pigmentary changes
Albinism, freckles
- .56 Disorders of sweat glands
- .57 Parasitic diseases See 616.96 Parasitic diseases
- .58 Other skin diseases
Chilblain, frostbite, chaps
- .6 **Diseases of genito-urinary system**
For diseases of women, see 618
- .61 Kidneys Ducts Bright's disease
- .62 Bladder Calculus
- .63 Urinary disorders Diabetes
- .64 Male urethra
- .65 Prostate
- .66 Penis
- .67 Scrotum
- .68 Spermatic cord Testes
- .69 Functional diseases of male generativ organs Sper-
matorrhea, impotence
- .7 **Diseases of organs of locomotion**
- .71 Bones (except spine)
- .72 Joints (except spine)
- .73 Spine Curvature
- .74 Muscles
- .75 Tendons Fasciæ
- .76 Bursæ Sheaths of tendons
- .77 Connectiv tissue
- .8 **Diseases of nervous system**
- .81 Diseases relating to cerebrospinal circulation Apoplexy
- .82 Diseases relating to cerebrospinal meninges
- .83 Structural diseases of brain and cord

- 616.84 Functional diseases of brain and cord For insanity see 132.1
 .841 Vertigo
 .842 Paralysis
 .843 Neurasthenia
 .844 Spinal irritation
 .845 Eclampsia, convulsions See also obstetrics, 618.75
 .85 Neuroses
 .851 Chorea, St Vitus dance
 .852 Hysteria See 135 Somnambulism, 132.4 Catalepsy, 132.3 Hypochondria
 .853 Epilepsy
 .854 Tetanus, lockjaw
 .855 Aphasia
 .856 Anesthesia, hyperesthesia
 .857 Megrin, sick headache
 .86 Neuroses due to special poisons
 .861 Alcoholism See also Dipsomania, 132.7
 .862 Metallic tremor
 .87 Diseases of nervs Neuralgia, cramp
 .88 Diseases of sympathetic system
.9 General diseases
 .91 Infectious diseases
 .911 Eruptiv fevers
 .912 Small pox See also 614.471 and 614.521
 .913 Cowpox
 .914 Chickenpox See also 614.525
 .915 Measles See also 614.523
 .916 Rubella, rubeola, rōtheln See also 614.524
 .917 Scarlet fever, scarlatina See also 614.522
 .92 Other fevers General works on fevers
 See also 612.57 Animal heat
 .921 Dengue, breakbone fever
 .922 Typhus See also 614.526
 .923 Plague
 .924 Relapsing fever, famin fever
 .925 Cerebrospinal fever
 .926 Simple continued fever
 .927 Enteric fever, typhoid fever See also 614.511
 .928 Yellow fever See also 614.476 and 614.541
 .93 Difteria Cholera Malarial fever
 .931 Difteria See also 614.512
 .932 Asiatic cholera See also 614.475 and 614.514
 .933 Sporadic cholera
 .934 Epidemic diarrhea See also 614.517
 .935 Dysentery See also 614.516
 .936 Malarial fever See also 614.53

- 616.94 Septic diseases
- .941 Phagedena
 - .942 Erysipelas
 - .943 Pyemia
 - .944 Septicemia
 - .95 Venereal diseases Hydrophobia, etc.
 - .951 Syphilis See also 614.547
 - .952 Gonorrhoea See also 614.548
 - .953 Hydrophobia See also 614.477 and 614.563
 - .954 Glanders See also 614.564
 - .955 Horsepox
 - .956 Splenic fever
 - .96 Parasitic diseases See also 614.55
 - .961 Animal parasites
 - See 591.69 Economic zoology; 614.92 Parasites of animals
 - .962 Entozoa
 - .963 Trematoda, flukes
 - .964 Cestoda, tapeworms
 - .965 Nematoda Round worms, thredworms, trichinae
 - See also 614.562
 - .966 Acanthocephala, thornheded worms
 - .967 Insecta parasitica Maggots
 - .968 Ectozoa
 - 1 Insecta parasitica: mosquitoes, gnats, bedbugs, fleas, lice
 - 5 Arachnida parasitica: mites, ticks
 - 8 Suctoria parasitica, leeches
 - .969 Vegetable parasites See 581.69 Economic botany
 - .97 Effects of poisons See 615.9 Toxicology
 - .98 Effects of injuries and climate
 - .981 Presence of foren bodies
 - .982 Mechanical injuries
 - .983 Excessiv exertion and strain
 - .984 Excessiv venery
 - .985 Privation
 - .986 Exhaustion
 - .987 Chemic agents
 - .988 Climate
 - .99 Other general diseases
 - .991 Rheumatism, rheumatic fever Gout
 - .992 Tumors
 - .993 Nonmalignant: cysts, wens
 - .994 Malignant: cancer
 - .995 Tubercle
 - .996 Scrofula Rickets
 - .997 Myxedema Cretinism
 - .998 Leprosy See also 614.546

617 Surgery

May be subdivided by o like 610, if wisht

.1 Injuries

- .11 Burns and scalds
- .12 Lightning and electric shock
- .13 Contusions and abrasions
- .14 Wounds
 - .141 Incised
 - .142 Contused
 - .143 Lacerated
 - .144 Punctured
 - .145 Gunshot See 617.99 Military surgery
 - .146 With lodgment of foren bodies
 - .147 With complete separation of parts
 - .148 Poisons See 615.9 Toxicology
- .15 Fractures
- .16 Dislocations
- .17 Sprains
- .18 Asphyxia

.2 Results of injuries

Constitutional effects and other complications. See also 616.94 Septic diseases

- .21 Shock
- .22 Inflammation
- .23 Abscess Sinus Fistula
- .24 Ulcers Sores
- .25 Mortification Gangrene
- .26 Traumatic fever
- .27 Tetanus See also 616.854

.3 Orthopedic surgery Deformities

For convenience the whole subject of deformities is clast here, tho many of them have no surgical treatment. See also 573.8 Dwarfs and giants; 573.9 Monstrosities 611.012 Teratology; 613.91 Congenital defects

- .31 Incomplete development or growth
 - Divided like 611 Anatomy
- .32 Incomplete coalescence of parts: harelip
- .33 Coalescence of parts
- .34 Extension of commissure (Apparent duplication)
- .35 Coalescence of fetuses Siamese twins
- .36 Supernumerary parts or organs: extra fingers or toes
- .37 Disproportionate growth of parts
- .38 Transposition or displacement of parts
- .39 Congenital distortions, including talipes, club foot

- 617.4 **Surgical operations**
 .41 Circulatory system
 .42 Respiratory system
 .43 Digestiv system
 .44 Glandular and lymphatic system
 .46 Genito-urinary system
 .47 Motor and integumentary system
 .48 Nervous system
- .5 **Regional surgery**
 .51 Hed Trephining
 .52 Face Mouth See 617.6, Dentistry; 617.7, Eye; 617.8, Ear
 .53 Neck Throat
 .54 Chest
 .55 Abdomen
 .56 Pelvis
 .57 Upper extremities Artificial arms, hands, etc.
 .58 Lower extremities Artificial legs, feet, etc.
- .6 **Dentistry Diseases of teeth**
 .61 Diseases of dental pulp
 .62 Diseases of dentin and cementum
 .63 Diseases of dental periosteum
 .64 Malposition and malformation of teeth
 .65 Odontalgia, toothake
 .66 Extraction of teeth
 .67 Stopping teeth
 .68 Transplanting teeth
 .69 Artificial teeth
- .7 **Ophthalmic surgery Diseases of the eye**
 .71 Conjunctiva Cornea Sclerotic Ophthalmia
 .72 Iris Choroid Ciliary body
 .73 Optic nerv Retina
 .74 Lens and its capsule Vitreous humor Affections of
 the globe Cataract
 .75 Disorders of vision
 Myopia, shortsightedness, astigmatism, colorblindness, daltonism. See also
 physiology, 612.845
 .76 Muscular apparatus Lacrimal apparatus
 Strabismus, squint
 .77 Eyelids
 .78 Orbit and neighboring parts
 .79 Artificial eyes

617.8 Diseases of the ear

- .81 Affections of external ear
- .82 Auricle
- .83 Auditory canal
- .84 Affections of middle ear
- .85 Membrana tympani
- .86 Eustachian tubes
- .87 Mastoid cells
- .88 Affections of internal ear

.89

.9 Operativ surgery

See 615.781 Anesthetics

- .91 Armamentaria Surgical instruments
- .92 Orthopedic appliances Splints, trusses, etc.
See 617.3 Orthopedic surgery
- .93 Surgical dressings
- .94 Amputation Resection
- .95 Plastic surgery
- .96
- .97
- .98
- .99 Military surgery

618 Diseases of women and children

.1 Gynecology Diseases of women

- .11 Ovary
- .12 Fallopian tube
- .13 Periuterin diseases
- .14 Uterus and cervix
- .15 Vagina
- .16 Vulva
- .17 Functional and symptomatic disorders
Diseases of menstruation Leucorrhœa Sterility
- .18
- .19 Diseases of breast

- 618.2 Obstetrics
- .21 **Pregnancy Physiology**
 - .22 Diagnosis Signs of pregnancy
 - .23 Duration
 - .24 Hygiene Management
 - .25 Multiple pregnancy: twins, etc.
 - .3 **Pathology of pregnancy**
 Diseases of pregnancy and their treatment
 - .31 Ectopic gestation Extra-uterin pregnancy
 - .32 Pathology of ovum
 - .33 Death and retention of fetus
 - .34 Pathology of fetal appendages
 - .35 Decidua
 - .36 Placenta
 - .37 Amnion
 - .38 Umbilic cord
 - .39 Abortion Miscarriage Stillbirth Molar pregnancy
 See 173.4 Infanticide; 340.6 Medical jurisprudence; 343 Criminal law
 - .4 **Parturition Labor Physiology**
 - .41 Mechanism of labor
 - .42 Presentations Positions
 - .43 Clinic course and phenomena
 - .44 Conduct of normal labor Management
 - .5 **Pathology of labor**
 Abnormal labor from faults
 - .51 of powers Anomalies of expellent forces
 - .52 of passages Mechanical obstacles to expulsion of fetus
 - .53 of child Abnormalities of fetus See 617.3 Deformities
 - Complications**
 - .54 Hemorrhage
 - .55 Rupture or laceration of genital tract
 - .56 Retention of placenta
 - .57 Inversion of uterus
 - .58 Prolapsus funis
 - .59 Other complications

MEDICIN: SURGERY

- 618.6 Puerperal state Physiology**
Management, including care of child
- .7 Pathology of puerperal state Puerperal diseases**
 - .71 Diseases of lactation: milk fever, mastitis, etc.**
 - .72 Puerperal fever** See 614.545 Public helth
 - .73 Metritis Peritonitis** See also 616.38 Cellulitis
 - .74 Septicemia** See also 616.944 Pyemia See also 616.943
 - .75 Convulsions** See 616.845 Eclampsia
 - .76 Puerperal mania** See 132.1 Insanity
 - .77 Phlebitis Venous thrombosis Phlegmasia dolens**
See 616.14 Diseases of veins
 - .78 Other puerperal affections**
 - .79 Sudden deth after delivery**
 - .8 Obstetric operations**
 - .81 Application of lever and forceps**
 - .82 Version**
 - .83 Embryotomy**
 - .84 Dilatation of os and cervix**
 - .85 Symphyseotomy**
 - .86 Cæsarian section**
 - .87 Removal of placenta**
 - .88 Induction of labor Removal of ovum**
 - .89 Intra-uterin injections Antiseptics in midwifery**
 - .9 Pediatrics Diseases of children**

619 Comparativ medicin Veterinary

- .1 Horses**
- .2 Cattle**
- .3 Sheep, goats**
- .4 Swine**
- .5 Poultry**
- .6 Birds**
- .7 Dogs**
- .8 Cats**
- .9 Other**

620 Engineering

See also 690 Bilding; 721 Architectural construction

SUMMARY

- 620.1 Applied mechanics Engineering materials
 - 621 **Mechanical engineering**
 - .1 Steam engineering
 - .2 Hydraulic engins or motors
 - .3 Electric engineering
 - .4 Air and gas engins and other motors
 - .5 Pneumatic machinery Refrigerating machines
 - .6 Blowing and pumping engins
 - .7 Mills Factories Engineering works
 - .8 Millwork Hoisting and conveying machinery
 - .9 Machine tools
 - 622 Mining engineering
 - 623 **Military and naval engineering**
 - .8 Naval architecture
 - 624 Bridges and roofs
 - 625 Railroad and road engineering
 - 626 Canal engineering
 - 627 River, harbor and general hydraulic engineering
 - 628 Sanitary engineering
 - 629 Other engineering industries
-
- .01 Statistics
 - .02 Quantities and cost
 - .03 Contracts and specifications
 - .04 Designs and drawings
 - .05 Executiv
 - .06 Working and maintenance
 - .07 Laws and regulations
 - .08 Patents
 - .09 Reports
 - .I **Applied mechanics Engineering materials**
 - Class here general works on materials with reference to their fitness in engineering See also 691 Bilding materials
 - .II **Strength of materials General theory**
 - General works considering various materials. For particular materials see 620.12-.19 Provision is made below for classing tests on 2 different bases: 1) by character of test, 2) by material tested. Class under material rather than under test when the two conflict. See also note under 620.112
 - For theory or mechanics of structures see 624; for theories of construction of bildings see 690.1
 - .III **General**
 - This hed is left for specialists wishing to analyze general works or collect clippings and notes too limited for .11 yet not specific enough to be put with a particular test or material. Libraries are unlikely to need any general hed except 620.11

STEAM ENGINEERING

620.112

Tests Factors affecting strength

Kinds of tests. Directions for making various tests, laboratory manuals

See note to 620.11

- 1 General: influence of temperature, selection of test pieces, etc.
- 2 Corrosion Wethering Protection against deteriorating influences
- 3 Elastic limit tests: plasticity, fatigue, deformation
See also 620.11246 Repeated stress
- 4 Tension, compression, torsion, flexure, shearing
Class here combined tests as well as general works covering these tests
If wisht, subdivide farther as follows:
 - 41 Tensil tests
 - 42 Compression tests
 - 43 Torsion "
 - 44 Flexure (transverse) tests
 - 45 Shearing tests
 - 46 Repeated stress tests
 - 5 Impact Repeated shock tests
Crystallization and formation of cleavage planes
 - 6 Hardness tests
 - 7 Special tests
Varying for different materials
 - 8 Tests on special shapes and forms
 - 82 Plates and structural shapes
Bars, rods, angles, beams: T, bulb, I, and channel beams
 - 83 COLUMNS, bilt columns Tubes, pipes, cylinders
 - 84 Rollers Spheres, solid or hollow Ball bearings
 - 85 Springs
 - 86 Hooks Chains Hoops Rings
 - 87 Rivets Bolts Screws Nails
Riveted joints of plates
 - 88 Wire Wire rope Cables Hawsers
 - 89 Other forms
 - 9 Other tests
- .12 Tests of timber See note to 620.11
- .13 Stone Cement Concrete
- .132 Stone
- .135 Cement
- .136 Concrete
- .137 Reinforced concrete
- .139 Other: artificial stone
- .14 Brick, tile, etc.
For glass see 666.1 Manufacture of glass, 691.6 Glass as a bilding material.
In engineering it is an accessory material not requiring a place under strength tests
- .15 Masonry adhesivs
Cement, mortar, plaster of paris, etc. See also bilding materials 691.5
Lime, plaster, cement
- .17 Iron and steel
- .18 Other metals
- .19 Other materials
- .195 Mineral: asbestos, mineral wool
- .196 Asphalt Tar
- .197 Vegetable: paper, hemp, etc.
- .198 Animal: hair, hide, bone, etc.
- .199
- .2 Compends Handbooks Kent, Trautwine
- .3 Dictionaries, cyclopedias
- .4 Essays
- .5 Periodicals
- .6 Societies
- .7 Study and teaching Instruments
- .8 Tables and calculations
- .9 History of engineering

621 Mechanical engineering

May be subdivided like 620.0 and by form numbers

- .I **Steam engineering**
 - Subdivide like 620 and 620.0, but use 621.101 as below. Other generalities of steam engineering are in 621.11 and 621.18
 - .101 Applied thermodynamics
 - Theory and use of steam in steam engine General energy considerations
 - Steam economy
 - I General
 - Expansion, entropy; extension of expansion approaching vacuum (condensers) superheating, cylinder condensation, jacketing, etc. For condensers, superheaters, etc. see 621.197
 - .II Mechanism of steam engine Design of engine parts
 - .III General
 - .II2 Types of engines: structural
 - Reciprocating engines in general. Types specified below are all reciprocating, except 1 Primitiv and 9 Other
 - 1 Primitiv
 - 21 Single acting
 - 22 Double acting
 - 3 According to transmission of motion
 - 32 Direct connected
 - 33 Indirect: beam connected
 - 4 According to position
 - 42 Horizontal
 - 44 Vertical
 - 45 Oscillating
 - 46 Inclined
 - 5 According to terminal pressure
 - 52 Condensing
 - In early period called 'low pressure'
 - 53 Noncondensing
 - In early period called 'high pressure'
 - 6 According to expansion
 - 61 Single expansion
 - 62 Compound
 - 63 Double expansion: cross compound
 - 64 " " tandem "
 - 65 " " angle "
 - 66 Triple expansion
 - 67 Quadruple expansion
 - 9 Other types
 - 95 Steam turbins
 - Better clast 621.165
 - 96 Rotary engines
 - Better clast 621.166
 - .I2 Marine engines
 - For propulsion see 623.8 Naval architecture
 - .I21 General
 - See also 621.11 and 621.18
 - .I22 Types of marine engines
 - 1 Primitiv
 - Inventions of Papin, Perier, Fulton, Stevens, etc
 - 2 Beam and side lever engines
 - 4 Horizontal, inclined, vertical engines
 - 5 Oscillating
 - 8 Launch engines
 - 9 Other special engines
 - .I23 Marine steam turbins
 - See also 621.165

STEAM ENGINEERING

- 621.13 Locomotives
- .131 Theory of the locomotiv
- 1 Adhesion Tractiv force Horsepower
- 2
- 3 Tests
- .132 Types
- Variations modifying tractiv force and speed, and affecting more than 1 class of mechanism. For variations in steam apparatus (oil burning locomotivs, etc.) see 621.133 and 621.134
- 1 Primitiv forms
- 2
- 3 Types according to distribution of wheelbase and load
Express by Whyte nomenclature for wheel combinations
- 5
- 6 Types according to purpose
- 62 Freight or goods engines Hog engin
- 63 Yard, switch or shunting engins
- 65 Passenger engins
- 67 Mountain "
- 68 Mining "
- 69 Other special locomotivs
- 8 Peculiar types
- Combined 'engin and coach wagou'
- 9 Types in different countries
Subdivided like 940-999; e.g. English locomotivs 621.132942
- .133 Locomotiv boilers Production of steam
- Better clast in 621.18423, as boilers of locomotiv type serv many other purposes For boiler management see 621.193
- 1 Combustion Fuels , Petroleum Fuel consumption
See also 621.18357
- 2 Grate and ashpit Firebox Stays
See also 621.1835
- 3 Shell and tubes
- 4 Smokebox and stack Spark arresters
See also 621.1838
- 5 Exhaust pipe
- 6 Dome
- 9 Miscellaneous fittings
Gage cocks, safety valvs, whistles, pumps, injectors, etc.
- .134 Engin of the locomotiv
- 1 Driving mechanism Cylinders, pistons, rods
- 2 Steam distribution Valvs and valv gears
- 22 Special types of valvs and valv gear
- 3
- 4 Compound principle
Distribution in compound locomotivs
- 5 Lubrication of locomotiv
- 9 Other parts of locomotiv: throttle, etc.
- .135 Running gear
- .136 Tenders
- 1 Design, weight, brakes, etc.
- 2 Appliances
- 3 Taking water without stopping; track tanks; water scoops
- 139 Miscellaneous parts
Cowcatcher or pilot, hedlight, whistle, bell, sandbox

- 621.14 Traction engines Road locomotivs
- Selfpropelling engines for hauling over roads or ground, or doing other work by locomotion. For railway engines see 621.13. For stationary hauling engines see 621.162
- Hauling may be accomlisht either by engines applying their power directly and moving with the load, i.e. locomotiv (621.13) over rails; or traction engines (621.14) over ground or roads; or by engines applying their power indirectly thru cables, etc. and standing in a fixt position either temporarily (621.15) or permanently (621.16)
- .141 Theory General
- .142
- .143 Boilers
- Better clast in 621.18423; 621.143 if used is limited to discussion of those suitable to traction engines
- .144 Types Traction engines for special uses
- .145 Compressing machines Steam rollers
- .146 Agricultural: plows, reapers, etc.
- .15 Portable engines
- Engins that may be moved from place to place, but that remain in a fixt position when working. If selfpropelling, the selfpropulsion is incidental. For fire engins and other pumping engines see 621.64
- .151 Theory General
- .152 Types, structural, etc.
- .153 Boilers
- Better clast in 621.18423. If used, limited to discussion of those suit able to portable engines
- .154 Portable engines for special purposes
- Hoisting, dredging, drilling, etc. See also 621.86 Hoisting and convey- ing machinery; 621.68 Fire engines; 627.7 Dredges
- .156 Agricultural: threshers, etc.
- .159 Semistationary engines Various types
- .16 Stationary engines
- Engins fixt in position; e.g. those running factory machinery, cables, ele- vators, etc. For management see 621.193. For boilers see 621.18424
- .161 Theory and general
- .162 Types by use: hauling, dredging, etc.
- For pumps see 621.64. For types clast by engin mechanism see 621.164
- .163 Stationary boilers
- Better clast in 621.18424 with only reference here
- .164 Types according to characteristics of engin mechanism or steam distribution
- When mechanism and steam distribution conflict, class according to mechanism; e.g. compound releasing-gear engines 621.1644 rather than 621.1647. Each type may be subdivided like 621.11; e.g. vertical throttling engines 621.1642244
- 1 General
- 2 Throttling engines
- 3 Automatic shaft governor engines
- 4 Releasing gear (Corliss) engines Drop cutoff
- 5 Single acting engines: Westinghouse or Willans type
- 6 Simple engines
- 7 Compound engines, triple expansion, etc.

621.165

Steam turbines

See also 621.123 Marine steam turbines

- 1 **Theory**
- 11 Methods of calculation
- 12 Vanes and buckets
- 13 Guide vanes and nozles
- 14 Stresses in rotor or disc
- 15 Windage
- 2 **Types**
- 22 Velocity turbines
- 23 Pressure turbines
- 24 Combined velocity and pressure turbines
- 3 **Construction Details of design**
- 32 Vanes Buckets
- 33 Guide vanes Nozles
- 34 Rotor Discs
- 35 Valvs, governors, safety devices
- 36 Thrust balancing
- 37 Mass "
- 38 Casing, etc.
- 39 Bearings, etc.

.166

Rotary engines

.169

.18

Steam generation and transmission

Fuels, furnaces, boilers, piping, power plants

For steam heating see 697.5

.181

General

.182

Fuels Combustion

- 2 **Fuels for boiler heating**
- 4 For fuels in general and fuel analysis see 662.6
- 22 Solid fuels: coal, lignite, wood, sawdust, peat
- 23 Liquid fuels: tar, petroleum, alcohol
- 24 Gaseous fuels: gas from blast furnaces, coke ovens; natural gas
- 25 Composit fuels: city refuse, coal dust, trash
- 3 **Fuel consumption**
- Practical experiments with a single fuel
- 4 **Comparativ consumption**
- Practical experiments with various fuels

.183

Furnace Draft

1

General

Heating and grate surfaces

2

Types of furnaces

5

Furnace parts and construction details

52

Grates

53

Stationary grates

54

Shaking, dumping and step grates

55

Ashpits Furnace doors

57

Burners for liquid fuel

6

Mechanical stokers

62

With traveling grate

63

" rocking "

64

" step grate (Roney grate)

65

" plunger

66

" screw

7

Other appliances

77

Pulverized fuel appliances

78

Fuel and ash conveyers Ash removers

See also 621.86 Hoisting and conveying machinery

8

Chimneys Stacks Draft appliances

Smoke consumers. For smoke prevention see 621.1941 Firing

82

Natural draft Dampers Uptakes

84

Induced draft

85

Forced draft

- 621.184 **Boilers** For boiler plants see 621.19
- 1 General**
- 13 Boiler economy Tests Feedwater
- 2 Types**
- 22 Marine
- 23 Locomotiv, traction, portable
- 24 Stationary
- 25 Firetube boilers (tubular)
- 25² Internally fired
- 25³ Externally " "
- 26 Water tube boilers (tubulous)
- 27 Flash generators Instantaneous vaporizing boilers
- 5 Boiler construction Setting Parts**
- 5² Shell Heds Tubesheets Domes Drums
- Riveted joints, staying and bracing
- 53 Tubes Ferules Rings
- 54 Casing
- 55 Inspection and cleaning parts: man and hand holes, cleanouts, covers
- 56 Setting and hanging
- 57 Foundations: masonry, flues, etc.
- 7 Boiler accessories**
- 7² Water gages, floaters, gage glasses, warning whistles
- 7³ Pressure gages, manometers, safety valves
- 7⁹ Other: air cocks and blowout valves, zincs, steam collectors
- .185 **Steam transmission and distribution Piping**
- 1 General; laws of flow, condensation, friction**
- 3 Connections; mains, auxiliary piping**
- 4 Valvs Stop, safety, reducing Pressure regulators**
- 5 Drains and traps Receivers and distributing valvs**
- 6 Covering Insulators**
- Nonconductors for high, low and medium temperatures
- 7 Joints and cements Expansion joints**
- 8 Utilization of exhaust steam See also 697.5 Steam heating**
- .19 **Steam boiler and power plants Central stations**
- See also bilding, 697.5 Steam heating; and Boiler, Boilers in Relativ index
- .191 **General**
- .192 **Arrangement and housing of apparatus**
- 5 Provision for enlargement
- .193 **Care and management of steam apparatus**
- .194 **Boilers**
- 1 Firing**
- 2 Feeding**
- Put here general discussion of feeding and feedwater appliances.
For separate description of appliances see 621.197
- 3 Treatment of feed water: purification, softening**
- 4 Scale prevention Incrustation**
- 7 Inspection Tests Rating**
- .195 **Engins: oiling, packing, adjusting**
- .196 **Duration Wear**
- 5 Corrosion
- .197 **Steam plant accessories Economic appurtenances**
- 2 Feedwater appliances**
- Tanks, heaters, economizers, filters, purifiers, regulators
- 3 Pumps Injectors Return traps**
- 4 Separators**
- 5 Superheaters**
- 6 Condensers and cooling towers**
- 6² Surface condensers
- 6³ Jet condensers
- 6⁴ Cooling towers
- 6⁷ Condenser accessories
- 7 Instruments**
- Indicators, tachometers, gages, dynamometers, thermometers,
pyrometers, lubricators, etc.

621.2 Hydraulic engines or motors

Industrial use of water as moti^v power, including machines run by water under pressure produced by accumulators and also constructions and appliances for distributing and regulating supply of water to motors
For hydraulic engineering (dam, breakwater, etc.) see 627; for pumps see 621.6; for reservoirs, aqueducts, etc. see 628.1; for theory of mechanics of liquids see 532

- .21 Water wheels
 - Theory, classification, parts (e.g. paddles, vanes, buckets) water gates, culverts
- .22 Overshot or bucket wheels Brest wheels
- .221 Overshot wheels of low velocity
- .222 Overshot wheels of high velocity
- .223 Brest wheels Fairbairn wheels
- .224 Sluice gate or Sagebien wheels
- .23 Undershot or impulse wheels and floating wheels
 - Ordinary undershot wheels
 - .231 Wheels with curvd vanes or buckets Pelton wheel
 - .232 Vertical impulse wheels
 - .233 Current suspension wheels
 - .234 Floating wheels
 - .235 Floating wheels
- .24 Turbines
 - See also 621.165 Steam turbines
 - .241 General: parts (e.g. distributors, buckets, guide vanes) regulators
 - .242 Reaction or pressure turbines
 - .243 Outward flow
 - Early forms: Barker's mill
 - .244 Inward flow
 - .245 Downward flow
 - .247 Impulse or Girard turbines
- .25 Water pressure engines Accumulators
- .252 Hydraulic pumps
- .253 Piping for high pressure
- .254 Accumulators
- .26 Hydraulic machinery and appliances
 - For theory see 532.81
 - .262 Funicular engines Hydraulic tackle
 - .263 Hoists Elevators Cranes
 - Class preferably in 621.86; i.e. purpose outweighs moti^v power
 - .264 **Special handling and lifting machinery for steel works, etc.**
 - .266 Presses Forging and stamping machines
 - .267 Accessories: injection pumps
 - .269 Mining, tunneling and other hydraulic appliances
 - Hydraulic giant, Brandt's hydraulic gun
- .27 Hydraulic rams
 - For theory see physics 532.83
 - .272 Lifting rams Montgolfier ram, Bolle ram, etc.
 - .273 Pumping rams Leblanc ram
 - See also 621.64 Pumps
 - .274 Compressing rams Sommelier ram
 - .29 Flood gates Dams Mill sluices Hed and tail races
 - Adaptation to hydraulic motors. For methods and principles of construction see 627.8 Hydraulic engineering

621.3 Electric engineering

001 Statistics; 002 Quantities and cost; 003 Contracts and specifications;
 004 Designs and drawings; 005 Execcutiv; 006 Working and maintenance;
 007 Laws and regulations; 008 Patents; 009 Reports
 May also be subdivided for form with 0 like 620.1-9

SUMMARY**621.31-7 Hevy current engineering**

- .31 Generation of electricity
 - .311 General
 - .312 Central stations
 - .313 Dynamoelectric machinery
 - .314 Stationary induction apparatus
 - .315 Electrostatic apparatus
 - .316 Accessories and parts
 - .317 Control and central station wiring
 - .319 Transmission
- .32 Electric lighting
- .33 Electric traction
- .35 Voltaic cells and batteries
- .36
- .37 Electric mcurements and testing
- .38 Weak current engineering
 - .382 Telegrafy
 - .384 Wireless communication
 - .385 Telefony
 - .39 Other applications of electricity

621.31-37 Hevy current engineering

- .31 Generation of electricity Dynamoelectric machinery
- Transformers Transmission

.311 General**.312 Central stations: metropolitan, rural**

Divided by 001-009 like 621.3 with the following additions to 006:

- 006 Working and maintenance
 - 4 Operation and running
 - 5 Regulation and control
 - 8 Testing
 - 9 Repairs and renewal

Administrativ point of view; a specific repair belongs with the part repaired

13**General central stations**

Combined power, traction, light, etc. stations

132

Steam driven

133

Gas "

134

Hydraulic

135

Composit

2**Stations for lighting only**

Divided by source of power like 621.31213

3**Stations for traction only**

Divided like 621.31213

5**Storage battery pressure regulating equipment****6****Substations**

63

Transformer substations

64

Converter "

65

Accumulator "

ENGINEERING

- 621.313
- Dynamolectric machinery
 - 1 **General; construction, installation**
 - 2 **Direct or continuous current machinery**
 - 21 Theory
 - 22 General types
 - 23 Continuous-current generators
 - 2 Series wound 3 Shunt wound 4 Compound wound
 - 24 Continuous current motors
 - Subdivided like 621.313.23 above
 - 245 Constant speed motors
 - 246 Multispeed motors
 - 247 Adjustable speed motors
 - 248 Varying " " (railway motors)
 - 25 Continuous-current converters
 - 26 Dynamotors and motordynamos
 - 27 Compensators or balancers
 - 28 Continuous-current boosters
 - 29 Other
 - 29.1 Acyclic or homopolar machines
 - 3 **Alternating-current machinery**
 - 3.2 **General types of alternating current machinery**
 - 3.21 Single phase machinery
 - 3.22 2 " "
 - 3.23 3 " "
 - 3.25 Other polyphase machinery
 - 4 **Synchronous machinery**
 - 4.1 Theory
 - 4.2 General types
 - 4.3 Alternating-current generators
 - 4.4 Synchronous motors
 - 5 **Alternating-current converters**
 - 5.1 Theory
 - 5.2 General types Description
 - 5.3 Synchronous converters
 - 5.4 Phase converters
 - 5.5 Frequency converters
 - 5.6 Double-current generator.
 - 5.7 Motor converters
 - 6 **Asynchronous machines**
 - 6.1 Theory
 - 6.2
 - 6.3 Induction generators
 - 6.4 " motors
 - 6.5 Series alternating-current motors
 - 6.6 Repulsion motors
 - 6.7 Frequency converters
 - 6.8 Phase converters
 - 7 **Rectifying apparatus**
 - 7.2 Mechanical rectifiers
 - 7.3 Arc "
 - 7.4 Electrolytic "

- 621.314 Stationary induction apparatus
- 1 Theory
 - 2 General types and description
 - 3 Transformers
 - 3¹
 - 3² Constant-current transformers
 - 3³ Constant-potential transformers
 - 3⁴ Phase-changing transformers
 - 3⁸ Meter transformers
 - 4 Auto transformers
 - 5 Potential regulators
 - 5¹ Compensator potential regulators
 - 5² Induction " "
 - 5³ Magneto " "
 - 6 Reactors or choke coils
 - 7 Induction coils
- .315 Electrostatic apparatus: condensers
- .316 Details of electric machinery Parts
Armatures, field cores, etc.
- .317 Central station wiring Control devices and switchboards
For meters and measuring instruments see 621.37
- 1 General
 - 2 Panels
 - 2² Generator panels
 - 2³ Motor "
 - 2⁴ Feeder "
 - 2⁵ Transformer "
 - 2⁶ Converter "
 - 2⁷ Lighting "
 - 2⁸ Accumulator "
 - 3 Switches
 - 3¹ General
 - 3² Knife switches
 - 3³ Dial "
 - 3⁴ Plug "
 - 3⁵ Oil "
 - 3⁶ Circuit breakers
 - 4 Rheostats and control devices
 - 5 Signal devices
 - 6
 - 7 Barriers and compartments
 - 8 Station protectiv devices (fuzes, lightning arresters, etc.)
- .318 Manufacturing processes
Processes peculiar to electric machinery and apparatus: e.g. insulating, varnishing, baking, armature stamps and dies

621.319

Transmission of electric energy

Limited to transmission of current from control to substations (stepdown transformers) and to questions common to all lines. For transmission systems for a special application see subject; e.g. traction lines 621.332

I General**12 Systems****122 Direct or continuous current systems**

Including 2 wire systems

123 3 wire (or Edison) and other**129 Other direct current systems****13 Alternating current systems****131 Single phase systems****132 2 phase (or quarter phase) systems****3** 3 wire system**4** 4 " "**133 3 phase systems****2** Delta or mesh connections**3** Star or Y connections**139 Other polyphase systems****15 Composit systems**

Direct and alternating current combined

2 Lines and conductors

For local wiring see specific application; e.g. electric light wiring 621.328

21 General

Interaction of parallel lines, heat losses. For traction lines see 621.332; for interior wiring for electric light see 621.328, for telegraf see 621.382, for telephones see 621.385-7

22 Overhed or aerial lines**222 Systems****223 Poles: foundations, guys, etc.****224 Cross arms Pins****225 Towers****23 Underground lines****232 Systems****233 Conditis****234 Manholes****3 Cables and conductors Insulating materials****32 Uninsulated conductors Bare wire****33 Insulated " Wire and cable****34 Cables****37 Insulating materials**

Leakage Influence of chemic composition

4 Insulators**8 Protectiv devices****82 Line lightning arresters**

For protection of central stations see 621.3178

621.32 Electric lighting Illumination

Class here works limited to electric lighting, but more general than any of the subheds below. This number is for matter differentiating lighting from other branches of electric engineering, but not for subjects which lighting has in common with other branches. For generation and control of electricity (including central stations) see 621.31, for transmission and wiring see 621.319, for mesuring see 621.37

For theory of electric light see 537.83 Electric lighting

.321

General

.325

Arc lighting

Including systems and lamps

- 1 General: efficiency, cost, etc.
- 2 Constant-current or series systems
- 3 Constant potential or parallel systems
- 4-5 Arc lighting according to
 - 4 Type of arc
 - If emphasis is on form of current, class under 621.3255 If there is conflict, prefer 621.3254
 - 42 Open arc
 - 421 " " direct current
 - 422 " " alternating current
 - 423 " " alternating current
 - 43 Inclosed arc
 - 431 " " direct current
 - 432 " " alternating current
 - 433 " " alternating current
 - 5 Form of current
 - If emphasis is on type of arc, class in 621.3254
 - 52 Direct current
 - 521 " " open arc
 - 522 " " inclosed arc
 - 523 " " inclosed arc
 - 53 Alternating current
 - 531 " " open arc
 - 532 " " open arc
 - 533 " " inclosed arc
- 6 Composite electrode arcs
 - Flaming arcs. Carbid, Bremer magnetite, titanium oxid arcs
- 7 Details Accessories
 - Arc light carbons
- 8 Applications
 - For welding see physics 537.85, and metallurgy 669
 - " therapeutic applications see 615.84 and 621.3915

82

Searchlights

.326

Incandescent lighting

- Including lamps and systems
- 1 General: efficiency, cost, etc.
- 2 Systems (Edison 3 wire system)
- 3 Carbon filament lamps
 - 31 Metalized filaments
 - 32 Other carbon filaments
- 4 Metal filament lamps
 - 41 Platinum filaments
 - 42 Tantalum "
 - 43 Tungsten "
 - 44 Osmium "
 - 45 Other metal filaments
- 5 Glowers of other materials
 - 53 Nernst lamps

ENGINEERING

- 621.327 Incandescent vapor lighting and lamps Other electric lighting
 - 3 Vacuum or incandescent vapor lamps
 - 4 Mercury vapor lamps
 - For mercury rectifiers see 621.3137
 - 5 Carbon vapor lamps Moore lamp
 - 7 Vacuum lamps for special radiations: Crookes tubes, etc.
- .328 Apparatus at servis end of line
 - 1 Underwriters requirements
 - National electric code
 - 2 House wiring
 - 3 Panels
 - 4 Fuzes
 - 5 Insulators, etc.
 - 6 Meters
 - See also 621.37 Electric mesurements and testing
 - 7 Switches
 - 8
 - 9 Other apparatus
- .33 Electric traction
 - See 625 for construction of route; 656 for business management maintenance; 654 for communication and signals; 699 for car bilding; 725 3 for architecture of stations, terminals, carsheds, shops, round houses, etc. This number is concernd properly only with the apparatus and appli- ances for transmission and use of the current after it enters the line.
- .33I General
 - 2 Systems
 - 4 Systems according to current
 - 42 Direct current
 - 43 Alternating current
 - 431 Single-phase
 - 432 2 phase
 - 433 3 phase
 - 439 Others
 - 5 Systems according to delivery of power
 - 52 Trolley systems
 - 53 Overhed trolley
 - 54 Underground trolley
 - 56 Third rail systems
 - 562 Unprotected third rail
 - 564 Protected " "
- .332 The line (including track)
 - 1 General
 - Interaction of parallel lines, heat losses, etc. are better clast in 621.3192 1
 - 17 Feeders and return systems
 - 2 Overhed wire Trolley lines
 - 23 Catenary suspension
 - 25 Trackless trolley
 - 3 Third rail
 - 5 Underground conductor or contact
 - 6
 - 7 Accessories
 - 9 Other types of line
- .333 Track
 - 1 General
 - 16 Deteriorating influences
 - 167 Electrolysis Leakage
 - 2 Rails
 - 4 Bonding

- 621.334 Rolling stock
 For nonelectric rolling stock see 656 for administration, 699 for construction
- 2 Locomotivs
 3 Motor tramcars
 4 Accessories and parts Control systems
 Motor, controller, current collecting devices, etc. Multiple unit control
 5 Locomotiv and car wiring
 7 Running gear and other nonelectric details
- .35 Chemic electricity Voltaic cells and generators
 Primary and secondary
- .351 General
 E.m.f, counter e.m.f, polarization, weight, capacity; efficiency, life, crumbling, deterioration and detrimental influences; residues
- .352 Parts and accessories of cells and accumulators
 1 Containers: jars, trofs, vats, etc.
 2 Electrodes and their accessories: positiv and negativ plates or elements
 Grids, supporting frames, insulating rods, etc.
 3 Diaframs and partitions
 4 Electrolytes Depolarizers Packing
 5 Circulators Condits and piping
 6 Connections Terminals Binding posts
 7 Regulating apparatus
 8
 9 Other apparatus
- .353 Primary cells
 See also 537.5 Voltaic electricity; 541.37 Electrochemistry
 1 General
 3 Single fluid
 4 Double " Hevy current cells
 5 Open circuit or nondepolarized
 6 Closed circuit or depolarized
 7 Accessories and parts
 8 Classification according to use or operating methods
- .354 Accumulators or storage batteries
 Secondary cells and batteries
 1 General
 18 Care and handling of accumulators
 7 Accessories and parts
- .355 Led accumulators
 1 General
 18 Care and handling
 2 Naturally formd: Planté type
 3 Artificially formd: Faure type
 4 Combined Planté-Faure types
 5 Other led accumulators
 52 Complex oxid types
 55 Led element accumulators
 56 Copper led "
 57 Zinc " "
 58 Cadmium " "
- .356 Alkalin accumulators
 .357 Other types of accumulators
 Thallium, gas, etc.
- .358 Other classifications of accumulators
 According to use or operation
- .359 Other topics pertaining to chemic generation of electricity
- .36 Vacant for future use; perhaps for direct transformation of heat or fuel energy

ENGINEERING

- 621.37 Electric measurements, meters and testing
- .371 General
 Tariffs may be classed here, tho better put in 654
- .372 Standards Calibration of instruments
- .373 Meters General types
 Recording meters. See also special meters, 621.384
 Prepayment meters. See also special meters, e.g. 621.3745 Watt hour
- .374 Special meters and measurements
- 2 **Resistance meters: inductance, capacity**
 Wheatstone bridges, ohmmeters, resistance boxes
- 3 **Potential meters: voltage**
 Voltmeters, electrometers, standard cells
- 4 **Intensity meters: current**
 Galvanometers, ammeters, coulometers, Ampère-hour meters
- 5 **Quantity or work meters Watt-hour meters**
- 6 **Power meters Watt meters**
- 7 **Frequency meters Oscillographs**
- 9 **Other meters and measurements**
- 91 Phase meters Power-factor meters Synchronizers
- .379 Other electric measuring instruments
 For other than electric measurements; e.g. electric thermometers
- Weak current engineering**
- .38 Electric communication: telegraphy, telephony, wireless
 Libraries have too much material classed in 654 to make it practicable to abolish that number for construction and instruments; but for electric engineers and new libraries who prefer it, the detailed technical classification is developed here.
 For overhead or underground lines see 621.3192
- .381 General
- .382 Telegraphy Systems
 When systems and instruments conflict, classify according to systems.
 For business administration, see 654; for wireless see 621.384
- 15 **Codes**
- 152 Morse
- 153 Continental
- 154 Phillips (press code)
- 2 **A B C, dial, needle telegraph, etc.**
- 21 Early experimental forms
- 22 A B C
- 23 Dial
- 24 Needle
- 25 Pointer
- 29 Other
- 3 **Hand operated code telegraphy**
- 31 Simplex
- 311 Open circuit
- 312 Closed circuit
- 32 Duplex
- 321 Differential duplex systems
- 322 Stearns duplex
- 323 Polar duplex
- 325 Bridge duplex systems

- 621.382 34 Quadruplex
 35 Multiplex
 36 Synchronous multiplex: Delany
 37 Harmonic " Gray
 4 Automatic code telegraf High speed systems
 41 Electrochemic automatic: Bain, Morse
 44 Ink recording or embossing
 45 Wheatstone
 46 Pollak-Virag
 47 Telepost (Delany)
 5 Printing telegraf
 51 Tape printing: stock tickets
 53 Other tape printing: Hughes
 55 Page printing: Buckingham, Murray, Baudot
 57 Multiple page printing: Rowland
 6 Writing telegraf
 Transmitting and recording characters while being written; Gray's telautograf
 7 Facsimile telegraf
 Sometimes cald fototelegraf
 8 Submarine cable telegraf
 9 Other wire systems
 94 Induction telegraf; from moving trains, etc.
 95 Combined telegraf and telefony Phantom circuits
- .383 Telegraf instruments
 1 Transmitting: keys, senders, etc.
 2 Intermediate and accessory: relays, repeaters, switches
 21 Relays
 22 Differential relays
 23 Polarized "
 24 Repeaters, for simplex; Milliken, Ghegan, Toye, etc.
 25 " " duplex or quadruplex
 26 ' Half ' repeaters
 27 Switches and distributing apparatus
 28 Protectiv apparatus
 29 Miscellaneous telegraf accessories
 3 Receiving instruments
 Sounders, recorders, etc. Subdivided, if wisht, like 621.3824-8
- .384 Wireless electric communication: telegraf, telefony
 1 General
 2 Wireless telegraf Systems
 21 Spark telegraf; by free oscillations
 25 Continuous-train telegraf; by forced oscillations
 3 Instruments
 31 Sending apparatus
 35 Antennae, aerials, and their substitutes
 36 Receiving instruments and apparatus
 4 Applications, adaptations, specific installations
 5 Wireless telefony systems
 6 Apparatus
 61 Sending apparatus
 65 Aerials, etc.
 66 Receiving apparatus
 7 Applications, adaptations, specific installations
 8 Vacant for possible development of visual transmission by wireless

ENGINEERING

621.385

Telephony Systems

See also 621.3845 Wireless telephony

- 1 **General**
- 2 **Party line**
 - When 2 and 3 or 2 and 4 conflict, 3 or 4 prevails
- 22 Series
- 23 Bridging
- 24 Selectiv
- 3 **Intercommunicating systems**
 - Without central switchboard
- 32 Common return systems; selectiv at each station
- 34 Radial common return systems; selectiv at one station only
- 36 2-wire systems; separate returns
- 4 **Central switchboard systems**
 - Manual; for automatic see 621.3857
- 42 Local battery or magneto systems
- 46 Common battery or central energy systems
- 5 Multiple switchboard systems
- 6 Trunking Transfer systems
- 61 Trunking
- 63 Transfer system
- 7 **Semiautomatic and automatic systems**
 - 72 Semiautomatic
 - 75 Automatic
 - 76 Strowger system (Automatic Electric Co)
- 8 **Private exchanges**

.386

Telephone instruments

Terminal; subscriber's instruments

- 2 Transmitters
- 3 Receivers
- 4 Induction coils
- 5 Condensers
- 6 Hook or other switches
- 7 Call receiving apparatus
- 8 Call sending
- 9 Miscellaneous accessories
- 92 Coin collecting devices
- 94 Protectiv devices
- 96 Current supply (local batteries)

.387

Central switchboards and other station equipment

- 1 **General**
- 2 **Switchboards, manual**
 - 22 Local battery or magneto
 - 26 Common battery
 - 3 Multiple switchboards
 - 35 Divided multiple
 - 4 Trunks Transfer boards
 - 41 Trunks and trunking
 - 43 A boards
 - 45 B boards
 - 47 Multiple plug transfer
- 5 **Switchboard parts and accessories**

DECIMAL CLASSIFICATION

- 621.387 6 **Power plant equipment and accessories**
- 62 Accumulators
- 63 Charging generators
- 64 Ringing "
- 7 **Automatic and semiautomatic switchboards**
 Including accessories. Subdivided like 621.3857
- 8 **Telephone transmission**
 For transmission common to other branches of electricity see 621.319
 Put here only that peculiar to telephony
- 81
- 82 Long distance
- 83 Transposition
- 84 Telephone cable construction
- 85 Loading
- 86 Pupin coils
- 9 **Other central station accessories**
- 92 Distributing frames and racks; main
- 93 " " " " intermediate or secondary
- 94 Protectiv devices
 See also 621.3178 and 621.31982
- 96 Meters and counters
 See also 621.3286 Electric light meters
- .388 Vacant for visual transmission by wire
- .389 **Other electric communication**
- .39 **Other applications of electricity**
 Subdivide like 600; e.g. electricity applied to mining 621.3922, applied to
 medicin 621.3915. This place is provided for specialists who prefer to
 mass all their material under 621.3. Libraries should class rather by pur-
 pose of the application; e.g. books on electric heating will be more useful in
 a general library under 697.7 with the question of heating than in 621.3997
 with a general assortment of unrelated applications. References here show
 a library's resources on special applications
- .4 **Air and gas engines, etc.**
- .41 Hot air engines
- .42 Comprest or rarefied air or gas engines
- .43 Internal combustion engines
- .431 General theory of internal combustion engines
- .432 Cycles and systems of operation
 - 1 4-cycle systems Otto cycle
 - 2 2-cycle systems
 - 3 Other and modified systems
- .433 Gas turbins
- .434 Internal combustion engines clast by fuels
 - 1 Engins for gaseous fuels
 - 11 Engins for natural gas
 - 12 " " illuminating gas
 - 13 " " blast furnace gas
 - 14 " " producer gas. For gas producers see 665.8
 - 15 Engins for acetylene gas
 - 2 Engins for liquid fuels
 - 21 Engins for gasolene
 - 22 " " kerosene
 - 23 " " other petroleum oils
 - 24 " " alcohol
 - 3 Engins for solid fuels

ENGINEERING

- 621.436 Special engines or motors
 Those not limited to a single system or fuel; e.g. description or discussion of Diesel motor. Arrange alphabetically by name of machine
- .437 Parts and accessories of internal combustion engines
- .438 Special applications
- 3 Selfpropelled machinery
 Engines for farm machinery, fire engines, roadrollers, etc. See also special machines
- 4 Selfpropelled vehicles
 Class here only adaptation and application of internal combustion engines to motor vehicles. See also 629.2 for motor vehicles
- 5 Motors for small boats
- 6 " " large vessels
- 7 Airship motors
 For airships see 629.15
- .44 Binary vapor engines
- .45 Windmills
- .46 Animal motors Treadmills
- .47 Solar engines
- .49 Power plants and central stations
- .5 Pneumatic machinery Mechanical refrigeration
- .51 Air compressors
- .515 Dry air compressors
- .517 Wet " "
- .52
- .53 Comprest air transmission and distribution
- .532 Details of transmission Piping, mains, gages, etc. Designs of transmission
- .54 Applications for comprest air
 For pneumatic hoists, etc. see 621.86
- .541 Comprest air motors
- .542 Pneumatic tools: drills, hammers, etc.
 See also 821.9 Machine tools
- .543
- .544 Special applications in railway servis
- .545 Comprest air locomotivs
- .546 Pumping by comprest air
- .549 Other applications
 Pneumatic cleaning, sandblasts, tubes
- .55 Rarefied air and vacuum appliances
 Vacuum cleaners: general discussion and description. See also domestic economy 648.52 Methods of sweeping and dusting
- .56 Refrigeration
 For cold storage see 664.8
- .564 Refrigerating fluids
- .565 Refrigerating systems and plants
- 1 Brine system
- 2 Direct expansion system
- .566 Design Calculation of piping, refrigerating surface.
 etc.

DECIMAL CLASSIFICATION

- 621.57 Refrigerating machines
 - .572 Ammonia compression machines
 - .573 Ammonia absorption "
 - .574 Carbonic acid machines
 - .575 Air machines, vacuum machines, etc.
 - .579 Other
- .58 Icemaking
 - .581 Can system
 - .582 Plate system
- .6 **Blowing and pumping engines**
 - .61 Piston blowers Blast furnace blowing engines, etc.
 - .62 Rotary blowers
 - .63 Centrifugal blowers
 - Including fans: exhaust and plenum
 - .64 Power pumps and pumping engines
 - Regardless of motiv power
 - .641 General theory • Design and construction
 - .642 Tests of pumps and pumping engines
 - .65 Direct acting pumps
 - .652 Piston pumps
 - .654 Plunger "
 - .66 Rotary pumps
 - .67 Centrifugal pumps
 - .68 Fire engines
 - .69 Other blowing and pumping devices
 - Steam jets, ejectors, etc.

621.7 Mills Factories Engineering works

Engineering questions affecting establishment and conduct of manufacturing plants. Arrangement of shops and departments (including storehouses, offices, etc.) with reference to sequence of processes, economy of power and handling; also equipment and internal arrangement of each shop. See also

- 651 Offis methods and equipment
- 657 Accounting, costkeeping, estimates
- 658 Business methods
- 659 Advertizing, etc.
- 670 Manufactures: articles, and methods and machines for making them
- 725.4 Architecture of factories

In 621.7 is considered the disposition of the material for which the architect constructs the shell, the assembling into a unit of elements essential to a great factory. A works manager may wish to keep *all* his notes on his own plant here, including machines and processes for his special product, but a general library should class manufactured articles, with the special means and methods of producing them, under the number for the article; e.g. a library would class material on spindles and looms in 677, but the manager of a woolen mill might prefer to class them in 621.7983 as an integral part of his plant, tho classification under the regular number will usually prove more satisfactory in all cases

.701 Location

With reference to supply of raw material, market for finisht product, shipping facilities, relativ cost of freight on material or product; e.g. the much greater cost of carrying a bulky car than an equal weight of compact raw material as a factor in locating an automobile factory

.704 Organization and administration

Managers and engineers, professional staff; artizans and laborers regarded as machine accessories; hours and shifts considered solely with reference to effect on output. For wages and other economic aspects see 331 Capital, labor and wages; for factory legislation (protection and welfare of employees) see 338.9. For organization of clerical force, see 651

.705 Mechanics and laborers

.71 Drafting room

- .711 General
- .712 Arrangement
- .713 Equipment
- .714 Materials and supplies
- .715 Methods and processes
- .719 Other

.72 Woodworking shop Pattern shop

May be subdivided like 621.71

.73 Forge shop

May be subdivided like 621.71

.74 Foundry

May be subdivided like 621.71

.75 Machine shop

May be subdivided like 621.71

.76 Blast furnace

May be subdivided like 621.71

.77 Rolling and drawing mills

May be subdivided like 621.71

.78

DECIMAL CLASSIFICATION

- 621.79 Other shops and departments
 - .792 Boiler and sheet metal shops
 - Stamping and punching May be subdivided like 621.71
 - .794 Special process shops
 - Galvanizing, plating, etc. May be subdivided like 621.71
 - .795 Finishing shop
 - Painting, glazing, grinding, buffing, testing. May be subdivided like 621.71
 - .796 Storehouses
 - ² Materials and supplies
 - ⁴ Explosives
 - ⁶ Products Shipping department
 - .798 Department turning out main product
 - Processes and machines Varying for different kinds of factories and provided only for factory use, see note to 621.7. Libraries should leave vacant May be subdivided like 621.71
 - .799 Other minor shops and departments
- .8 Principles of mechanism Power transmission
 - Hoisting and conveying machinery
 - .81 General Principles of mechanism Machine design
 - .82 Journals, shafting, etc.
 - .821 Journals
 - .822 Bearings: ball, roller, etc. Hangers Bearing metals
 - .823 Shafting
 - .8235 Flexible shafting
 - .825 Couplings and clutches Universal joints
 - Friction clutches
 - .826 Shaft brakes
 - .83 Tooth gears and cams
 - .831 General: theory, forms of teeth, tooth curves
 - .832 Efficiency of gears Tests Friction of gears
 - .833 Design of gears
 - ¹ Spur gears
 - ² Bevel and skew bevel gears
 - ³ Worm and spiral gears
 - Screws for transmitting motion, endless screws
 - .834 Construction: gear cutting and casting
 - .835 Chain gearing
 - .837 Ratchet gearing: pawls, dogs
 - .838 Cams
 - .84 Valv motions and gears
 - General, trade catalogs; for special valvs see subject
 - .846 Valvs and cocks
 - .85 Machinery and mill gearing
 - Class here transmission by flexible connections
 - .852 Belt connection
 - .853 Hemp rope transmission
 - .854 Wire rope "
 - .856 Pulleys Sheaves
 - .858 Friction gearing

ENGINEERING

621.86

Hoisting and conveying machinery

For dredges see hydraulic engineering, 627.7 Dredging, dredging machinery See also 621.26 Hydraulic machinery; 621.18373 Fuel and ash conveyers

.861

.862

Hoists: blocks and tackle

.863

Mechanical tackle **Chain blocks**

.864

Winches Capstans Windlasses

.865

Power shovels

.867

Conveyers Telferage

4

Belt or bucket conveyers

5

Belt: moving sidewalks

6

Bucket: escalators, moving stairs

9

Other conveyers: cash carriers, etc.

868

Telfers

4

Selfpropelling

.869

Other: jacks, etc.

.87

Cranes and elevators

.871

.872

Derricks

.873

Revolving cranes

621.873-5 may be subdivided like 621.8771-5 by kind of power if wisht; e.g. 3 Steam 4 Hydraulic 5 Electric

.874

Traveling cranes

.875

Locomotiv cranes

.876

.877

Elevators

1

Handpower

2

Belt driven

3

Steam, gasoline

4

Hydraulic

5

Electric

6

7

For special purposes

71

Passenger elevators

72

Freight "

For mines see 622.17-.68

73

74

Dum waiters Book lifts

Lifts for small objects

8

Apparatus

81

Car and guides

82

Power transmitting devices

83

Counterbalancing weights and guides

84

Control devices

85

Safety "

86

Accessories

- 621.88 Fastenings
 - .882 Screws and bolts Systems of screw threads
 For screws for transmitting motion see 621.8333
 - .883 Keys and cotters
 - .884 Rivets Design of riveted joints
 - .89 Friction Lubrication Lubricants
- .9 Machine tools
 - Manipulation Discussion and catalogs of different kinds and makes of metalworking tools. For manufacture of various tools, see 672. For wood-working tools, see 674 Wood manufactures; also 684 Cabinet making, 694 Carpentry, 736 Wood carving
 - .91 Planing and milling machines
 - .912 Metal planers, shapers, and slotters
 - .92 Grinding and filing Abrasives
 - .922 Cylinder and surface grinding machines
 Lapping machines
 - .923 Emery wheels
 - .924 Filing machines
 - .93 Cutting and sawing
 - .931
 - .932 Metal sawing and cutting machinery
 - .94 Turning
 - .941
 - .942 Metal turning lathes
 - .943
 - .944 Pipethreading machines
 - .945 Boring mills
 - .95 Perforating machinery
 - .951
 - .952 Drilling machinery Drills
 - .953
 - .954 Reamers
 - .955 Tapping machines
 - .96 Punching and shearing machinery
 - .97 Hammers Riveting tools
 - .98 Bending, straightening, and shaping
 - .981
 - .982 Bending machinery
 - .983 Straightening machinery
 - .984 Flanging and die press machinery
 - 99

622 Mining engineering. See also 338.2 Mining products; 332.41 Coin-
age metals

May be subdivided like 620 and 620.0; e. g. Societies, 622.06; Reports, 622.033

.1 **Exploration and Prospecting**

- .11 Theory Applied Geology, etc.
- .12 Prospecting. Practical Methods.
Including Divining Rods.
- .13 Mineral Surveys.
- .14 Mine Surveying.
- .15 Magnetic Surveys.
- .16 Theory of Faults. See 551.87 and 553.19
- .17
- .18
- .19 Mining Prospectuses. See 553

.2 **Practical Mining.**

- .21 Excavation.
- .22 Quarrying.
- .23 Drilling and Blasting.
- .24 Deep Boring.
- .25 Shaft Sinking.
- .26 Tunneling and Drifting.
- .27 Stopping.
- .28 Timbering. Masonry lining See also 622.56

.3 **Working of Mines. Exploitation.**

- .31 Open Workings.
- .32 Hydraulic Mining and Sluicing.
- .33 Coal Mining. See 553.2.
- .34 Metal Mining. See 553.3 and .4.
- .35 Working Thick Deposits.
- .36 Salt Mining. See 553.63.

- 622.4 Ventilation and lighting of mines**
- .41 Theory Gases met with, etc.
 - .42 Natural ventilation
 - .43 Furnaces Steam jets, etc.
 - .44 Fans See 621.62
 - .45 Airways Stoppings Regulators
 - .46 Measurement of ventilation
 - .47 Lighting Safety lamps, etc.
- .5 Drainage**
- .51 Theory of infiltration of water
 - .52 Natural drainage
 - .53 Cornish pumps See 621.6
 - .54 Steam pumps See 621.64
 - .55 Hoisting of water
 - .56 Dams and watertight linings See also 622.28, Timbering
 - .57 Acid waters
- .6 Extraction Hoisting and transportation**
- .61 Handling mineral in working place
 - .62 Underground roads
 - .63 Mine cars Trams, etc.
 - .64 Gravity roads and planes
 - .65 Trammimg and animal haulage See 625.7
 - .66 Mechanical haulage
 - .67 Hoisting engins Drums Ropes Whims
 - .68 Cages Skips Buckets
 - .69 Surface transportation
 - Including mineral roads, wire ropeways, transshipment, loading and unloading, etc.
- .7 Mechanical preparation Ore dressing**
- .71 Theory Preliminary operations
 - .72 Hand dressing
 - .73 Crushing Stamping engin
 - .74 Screening
 - .75 Jigging Ore concentrators
 - .76 Slime treatment
 - .77 Magnetic separation
 - .78 Coal washing
 - .79 Dressing works
- .8 Dangers and accidents** See also 613.6 Hygiene; 331.82 Laboring classes
- .81 Explosions of firedamp
 - .82 Mine fires
 - .83 Crushing and fall of ground
 - .84 Flooding of mines
 - .85 Accidents to miners
 - .86 Rescue and relief
 - .87
 - .88
 - .89

623 Military and naval engineering

For military and naval science, maneuvers, strategy and tactics see 355-359

SUMMARY

- 623.1 Fortifications: field and permanent
 - .2 Siege operations: mines, etc.
 - .3 Defensiv operations
 - .4 Ordnance and projectils
 - .5 Gunnery
 - .6 Military roads and bridges
 - .7 Military signals: telegraf, ballooning, etc.
 - .8 Naval architecture
 - .9 Armor Torpedoes, etc.

.1 Fortifications: field and permanent**.11 Principles of fortification****.111 Profiles****.112 Plans****.113****.114 Defilading****.115****.116 Details: bastions, curtains, glacis, etc.****.117 Accessory defenses**

Flanking defenses; outworks, palisades: moats, obstacles etc.

.12 Construction of permanent fortifications**.122 Earthwork****.123 Masonry: concrete****.124 Armor****.13 Systems of forts****.131 Central fort****.132 Citadel****.133 Fortified positions****.134 Barrier forts****.15 Temporary fortifications Field works****.19 Special forts**

Divided like 930-999; e.g. history of the fortress of Gibraltar 627.19468

.2 Siege operations Mines

Class here only engineering operations. For conduct of sieges, see 355.44

.21 Siege works

Investment, establishing camps

.22 Circumvallation and countervallation**.23 Establishing parallels and advancing batteries****.24 Zigzags Saps**

Trenching, blindage, gabionades

.25 Breaching batteries Breaches

For assaults see 355.44

.26 Land mines and torpedoes

See also 623.9 Submarine torpedoes

.27 Other means of demolition

Firing and exploding devices

623.3 Defensiv operations

For maneuvers see 355.44

.34 Defense of trenches

.35 " breaches

.36 Countermines

.4 Firearms, ordnance and projectils **Arsenals**

Including ammunition in general and fireworks. For manufacture of explosivs see 662. For general history of war customs and wepons, and of ancient engins of war see 399. Class here wepons for gunpowder and similar explosiv.

.41 Artillery material

Class according to use

.412 Field artillery material

.413 Mountain " "

.414 Landing " "

.415 Siege " "

.416 Fortress " "

Including large guns (fortress, coast and naval) considered together

.417 Coast artillery material

.418 Naval " "

.42 Guns

.421 Guns according to form and construction

See also 623.5 Gunnery; 623.47 Gunmaking

1 Early forms: bombards, culverins, etc.

For blunderbuses and other early forms of small arms see 623.441

2 Guns proper or long cannon

3 Short cannon or howitzers (shell guns)

4 Mortars

5 Guns made in a single piece

6 Bilt up guns

61 Hoopt guns

62 Jacketed guns

63 Hoopt and jacketed guns

64 Wirewound guns

.422 Guns according to mode of loading and operating

1 Muzzleloading guns

2 Breechloading "

3 Rapidfire guns

4 Machine "

42 Multiple tube guns

Gating guns, Hotchkiss revolving cannon

43 Single tube guns

5 Automatic and semiautomatic guns

Hotchkiss, Maxim, Colt

.423 Form and interior arrangement of guns

1 General plan

2 Outside form

3 Hooping

4 Jacketing

5 Bore

6 Rifling

7 Chamber

ENGINEERING

- 623.424 Breech and firing mechanisms
- 1 Breech closing apparatus
 - 11 Block
 - 12 Wedge
 - 13 Screw
 - 2 Firing apparatus Vent Vent bushing Firing pin
 - 3 Safety apparatus: gas checks, etc.
- .425 Sighting attachments
- For detach apparatus, see 623.462
 - 1 Backsight, sliding notch, eyehole, etc.
 - 2 Sight Foresight
- .43 Mounts and carriages
- Including their parts and accessories
- .431 Field and mountain mounts and carriages
- 1 Field mounts
 - 2 Mountain mounts
 - 3 Machine gun mounts
 - 4 Caissons and limbers
 - 5 Ammunition chests
 - 6 Battery carriages (i. e. tenders)
- .432 Siege mounts and carriages
- 1 Siege gun mounts
 - 2 Howitzer mounts
 - 3 Mortar mounts
 - 4 Siege carriages (i. e. tenders)
- .433 Fortress, coast and naval mounts
- For accessories see 623.435
 - 1 Casemate mounts
 - Pedestal and pivot mounts
 - 2 Barbet mounts
 - 3 Disappearing mounts
 - 4 Turret mounts
- .434 Naval mounts
- For discussion limited to naval use
- .435 Mechanism of mounts
- Platforms, circular pintle block and pivots
 - 1 Checks and transoms
 - 2 Chassis and crossed slides
 - 3 Mechanism for maneuvering and going into battery: wheels trucks, rollers
 - 4 Sighting apparatus
 - 5 Recoilchecking mechanism Breeching Vent plug
 - 6 Recoil mechanism Brakes
 - 61 Automatic friction recoil checks
 - 62 Screw brakes
 - 63 Hydraulic brakes
 - 64 Pneumatic "
 - 65 Trail spades
 - 7 Reactionary mechanism
 - Devices for restoring guns to firing position after recoil
 - 71 Spring recuperators
 - 72 Pneumatic recuperators

- 623.436 Maneuvering appliances
- 1 Levers, handspikes, roller handspikes
 - 2 Breeching tackle
 - 3 Shot barrows, shell barrows
 - 4 Projectil hoists
 - See also 621.86 Hoisting and conveying machinery
- .44 Small arms
- Mechanism and military efficiency
 - For small arms practis see 355.5
 - " manufacture of small arms see 683
 - " wepons prior to firearms see 399
- .44I Primitiv forms of firearms
- Blunderbus, harquebus, etc.
- .442 Rifles, muskets, carbines, musketoons
- Including also bayonet as part of the complete wepon
- 1 Single shot, muzzleloading
 - 2 " " breechloading
 - 3 Repeating rifles
 - With magazine
 - " loader
 - 4 Automatic guns
- .443 Pistols and revolvers
- 1 Single shot pistols
 - 3 Automatic pistols
 - 4 Revolvers
- .444 Side arms Cutting arms
- For halberds, axes, dirks, poniards, and other antiquated forms see 399
- 2 Swords
 - 3 Bayonets: saber bayonets, sword bayonets
 - 4 Lances
- .45 Ammunition and fireworks
- Kinds and relativ efficiency for military purposes. For details of manu-
facture of powder and explosivs see 662
- .45I Artillery projectils
- Including exploder as part of projectil
- 1 Spheric projectils
 - 11 Solid shot
 - 12 Bombs
 - 13 Shells: early shrapnel
 - 14 Grenades
 - 2 Elongated projectils
 - 22 Case shot: canister and grape
 - 25 Elongated bullets
 - 3 Shells
 - 4 Modern shrapnel
 - 5 Segment and ring shell
 - 6 Incendiary shells
 - For illuminating shells see 623.45446
 - 7 Shells with high explosiv Torpedo shells
 - 8 Armorpiercing shells and other projectils

ENGINEERING

- 623.452 Powders Explosivs
 See also 662.2 Powder manufacture
- 1 Gunpowder
 2 Other powders
 9 Other explosivs
- .453 Fixt ammunition
- .454 Exploding devices and fireworks
 See also 662 Pyrotechnics, explosivs, matches, etc.
- 1 Matches and fuzes
 11 Slow matches and fuzes
 12 Quick matches and fuzes
 2 Exploders
 21 Percussion caps
 22 Primers
 23 Projectil fuzes
 24 " detonators
 29 Other exploders, etc.
 3 Fireworks, bombs, etc.
 For torpedoes see 623.9
 31 Incendiary devices
 32 War rockets
 33
 34 Petards
 35 Camoufflets
 4 Illuminating fireworks
 41 Links
 42 Torches
 43
 44 Signal rockets
 45
 46 Illuminating projectils Star shells
- .455 Small arms ammunition
 For powder see 623.452
- 1 Spheric bullets
 2 Elongated bullets Minie ball
 3 Cartridges Fixt ammunition
 32 Jacketed bullets
 35 Prohibited bullets: dum dum or expanding; explosiv
 Those prohibited by Hague conference
- .46 Artillery accessories
- .461 Battery tools
- .462 Instruments
 1 Sighting apparatus: rear sight, quadrants, elevating arcs,
 range scales
 5 Range finders
- 463 Implements: rammers, swabs, levers
- 47 Arsenals
 Subdivide like 621.7

- 623.48 Preservation and care of munitions
 Reception, tests, accidents
- .481 Preservation
- 1 Magazines
- 2 Guns
- 3 Carriages
- 4 Small arms
- .482 Reception Tests Buying
- 1 Inspection
- 2 Acceptance tests
- 3 Function of commissions Experimentation
- .483 Accidents Explosions; preventiv mesures
- 1 Accidents to persons
- 2 " material
- 21 Accidents to arms
- 22 " in transit
 Damage to boats, cars, etc.
- 23 Accidents to structures
- .5 Gunnery
 Theoretic and experimental; efficiency of artillery system as a whole. See also
 'Projectils' in Relativ index following Tables
- .51 Theory and strength of guns
- .52
- .53 Interior ballistics
 Effects of powders; experiments
- .54 Exterior ballistics
- .55 Sighting and firing
- .551 Field and mountain guns
- .552 Siege guns
- .553 Fortress, coast and naval guns
- .554 Naval target practis
- .56 Effect of projectils
- .561 On living targets: impact, gases
- .562 " inanimate targets
- 1 Earthworks
- 2 Masonry Concrete
- 3 Armor
- .57 Reaction of mounts
- .571 Rigid rolling mounts
- .572 " sliding "
- .573 Theory of braking
- .574 Mechanically controld recoil
- .575 Nonrecoil mounts
- .58 Traction of carriages

ENGINEERING

- 623.6 Military roads, bridges and bildings**
 From the special point of view of military servis. For construction in general see 690.1 and 721; for bridges, roads and railways see 624 and 625; for seacoast walls, see 627 Hydraulic engineering
- .61 Military bildings**
 Duplicating 725.18 for military engineers. Libraries should use 725.18 and leave 623.61-.614 vacant; for construction of fortifications see 623.1
- .611**
- .612 Barracks**
- .613 Military establishments**
 Groups of bildings forming a unit; e.g. military schools, army posts
- .614 Magazines**
- .62 Military roads and thorofares**
 See also 625.7 Construction of roads
- .63 Military railways**
 See also 625 Railway construction
- .631**
- .632 Destruction of tracks**
- .633**
- .634**
- .65 Military bridges**
 For permanent bridges see 624
- .651**
- .652 Pontoon bridges**
- .653 Trestle bridges**
- .654 Other temporary bridges**
- .66 Bridge material**
- .7 Military signals Aeronautics, etc.**
 Special military applications of science
- .71 Military topografy**
 Special processes and instruments. See also 526 Topografy in general
- .72 Fotografy**
 Reproductiv processes applied to military art. See also 770 Fotografy
- .73 Signaling Military telegrafy**
- .731 Visual signals: heliografs, searchlights, etc.**
- .732 Military telegrafy**
 Both wire and wireless. See also 621.382 and 654 Telegrafy
- .733 Military telefony**
 Both wire and wireless. See also 621.385 and 654.6 Telefony
- .74 Military aeronautics**
 For principles see 533.6 Aeronautics; for construction of airships see 629.13
 Class here only military utility
- .741 Machines lighter than air**
- .742 Free balloons**
- .743 Dirigible balloons**
- .744 Captiv balloons**
- .745**
- .746 Machines hevier than air: aeroplanes**
- .749 Other**
- .75 Military sanitation**
 Camp sites: soil, water, drainage, etc. For personal hygiene see 613.6,

- 623.8 Naval architecture Shipbilding**
 Including warship accessories. Class here comprehensive works on shipbilding. Subdivide with 001-009 and 02-09 like 620. For ship design and theory see 623.81 Design; for principles of flotation see 532.3 Floating bodies
- .81 General Design**
 Class here also separate discussion of such general questions as flotation, displacement, stability, strength, resistance, propulsion and design; i. e. speed and power, coal endurance and steaming radius, passenger or cargo capacity, etc.
- .82 Types of ships and boats**
- .821 Primitiv and early forms**
- 2 Rafts, catamarans, dugouts; galleys**
- .822 Modern sailing vessels**
- 5 Caravels, sailing yachts, etc.**
 See also 797 Yachting; 623.824 Power yachts
- .823 Engin driven vessels**
 Steam, internal combustion, electric, etc.
- 2 Tugs and lighters**
- 4 Ferry boats: passenger, freight and train**
- .824 Passenger and cargo vessels**
 River, lake or ocean liners; power yachts, etc. For tugs, ferryboats, small motor boats, etc. see 623.823
- .825 Warships**
 Fighting vessels: battleships, cruisers, gunboats, monitors, torpedo boats, submarines. For sailing men-of-war see 623.822
- .826 Other government vessels**
 Transports, hospital ships, store and fuel ships (supply, food, refrigeration, ammunition ships; colliers, oilers, mineplanters, etc.) repair ships, lightships and lighthouse tenders, police boats, revenue cutters, fish commission boats, fireboats, etc.
- .828 Other power vessels**
 Ships for cable laying, icebreakers, trawlers, etc. For dredges see 627.7
- .829 Other boats**
 Flatboats, scows, lighters, canal boats, barges, rowboats and canoes, lifeboats, surf boats
- .83 Appliances peculiar to shipbilding**
 Model tanks and experiments, including also Froude's tests on full size ships; launching ways and launching; dry or graving docks; moldloft and scribeboard
- .84 Hull and its accessories**
 Structural: watertight compartments; systems of construction (wood, composite, iron and steel), structural details (framing, bulkheads, etc.)
 Nonstructural: joinery, nonstructural decks
- .85 Hull accessories: masts and spars; rudder and steering gear; drainage, etc.**
 Lighting, ventilating, heating, refrigerating; electric plant and lighting for ship installation only; see also 621.3 Electric engineering
 Ship fittings: doors, hatches, etc.
- .86 Equipment and outfit**
 Superadded, not bilt in, but necessary for effective use of ship
 Sails and rigging; anchors, chains, cables, hawsers; compasses, sounding machines, speed logs; boats, rafts, life preservers, buoys
 Furniture, saloon and cabin furnishings; table and galley (kitchen) outfit.
 See also domestic economy, 645
- .87 Propelling machinery**
 Vibration and balancing. For theory of propulsion see 623.81
 See also 621.12 Marine engins; 621.165 Steam turbins; 621.18 Boilers
- .9 Armor and armament**
 Distribution, armoring; proper hight, etc; battery
 For manufacture of armor plate see metallurgy, 669.1 Iron and steel
- .95 Torpedoes** Launching tubes and other accessories

624 Bridges and roofs Viaducts

Subdivide if wisht like 620.1-9 and 620.0

- .1 **General**
- .12 Purpose
 - Highway, foot bridges, etc. regardless of structural type
- .13
- .14 Location Approaches
- .15 Foundations
 - General works Foundations of bildings are better clast 721.1
- .151 Foundation bed Nature of soil
- .152 Excavation, timbering, shoring
 - 624.153-.157 may be subdivided like 721.13-.17
- .153 Material for bilding foundations
 - For material for superstructure see 624.01
- .154 Pile foundations: general Material
- .155 " " methods of sinking
- .156 Platform foundations
- .157 Subaqueous foundations
 - Processes: cofferdam, caisson, freezing
- .16 Piers and abutments
 - Wood, masonry, metal. Subdivided like 620.1
- .17 Stresses and strains
 - General; if limited to a special type, class with that type
- .171 General Computation of stresses
- .172 Loads
 - Ded, live or moving loads
- .173 **Highway**
- .174 **Railway**
- .175 Wind pressure
- .176 Working stresses
- .2 **Girders and girder bridges**
 - Including floor systems; see .25 below
- .21 Girders
 - Continuous; discontinuous or independent
- .22 Solid beams
- .222 **Wood**
- .227 **Metal**
- .23 Plate girders Lattis girders
- .24 Trestles
- .25 Floor systems
- .27 Girder bridges
- .3 **Trusses and trussed bridges**
 - Constructed of systems of braced girders
- .31
- .32 Simple truss
- .33 Continuous truss
- .35 Cantilever truss Balance bridge
- .4 Tubular bridges Box-girder bridge

- 624.5 **Suspension bridges**
 .52 Flexible Rope bridge
 .53 Rigid
 .55 Cables
 .56 Towers or piers
 .57 Anchorage
 .6 **Arch bridges**
 .62 Wood
 .63 Masonry
 Stone, brick, concrete, reinforced concrete
 .67 Metal: iron and steel
 .68 Hinged arch
 .7 **Compound structures**
 Structurally compound; e. g. plate girder and suspension, trussed arch
 .8 **Movable bridges** **Drawbridges**
 .82 Bascule: counterpoise, folding
 .83 Swing: pivot, swivel, turning
 .84 Lifting
 Whole bridge lifted vertically
 .85 Rolling
 Floating; see also 624.87
 .86 Aerial and other traveling bridges
 .87 Pontoon bridges: floating, boat or raft
 .9 **Roofs**
 For other relations see Roofs in Relativ index
- 625 **Railroad and road engineering**
 May be divided by o and oo like 620. For railway operation see 656
- .1 **Way and works**
 .11 **Route**
 Reconnaissance, preliminary and locating surveys; center line; grades; curves; switchbacks
 .12 **Permanent way** **Roadbed**
 Earthwork: surveys, computation, classification, cuts and fills. Drainage
 .13 **Structures: tunnels, culverts, snowsheds**
 Class here general works on tunnels; see also mining 622.26
 For bridges and trestles see 624; for transportation billings see 725.3
 .14 **Track: ballast, ties and tieplates, strains**
 Including also rails and their accessories
 .146 **Monorail tracks**
 .15 **Rails and accessories**
 Rail braces, rail joints, chairs, track bolts, nut locks, spikes
 .16 **Track accessories**
 Turnouts, switches, sidings, bumping posts; crossings; signals; turntables; ashpits, track tanks; cattle gards
 .17 **Road maintenance and repair** **Materials**
 .18 **Road equipment**
 Fences, gates, platforms, track scales, yards, etc. Stations, depots, shops, etc. considered as road accessories
 For stations, depots, roundhouses, etc. see 725.3
 For shops see 621.7
 .19 **Other topics**

ENGINEERING

625.2

Trains and accessories

Interrelations of road and rolling stock; strain and wear
For car building see 699 For time tables, traffic, etc. see 656

.21

Running gear

Trucks, bogies and Bissell bogies; wheels, axles, tires, balancing; axle boxes and gards; lubrication
Suspension, bearing springs

.22

Cars See also 699 car building

Transverse section of car and track gage
Effect of length of car in rounding curves

.23

Passenger cars

.24

Freight and combination cars

.25

Brakes Buffers and couplings

.26

Power requirements

Length and weight of trains. Speed
See also 621.13 Steam engines; 621.3342 Electric engines; 621.43 Gas engines

.27

Monorail rolling stock

.28

Inclined and mountain railways

.3

Funicular railways

.32

Rack railways

.33

Elevated and underground roads, subways

.4

Cable roads

.5

Street railways, tramways

See also 621.33 Electric traction; 625.4 Elevated and underground railways;
625.5 Cable roads; 699 Carbuilding

.6

Roads, highways, streets

See also local government, 352.7 Streets, highways; for pavements see 625.8

.7

.71

Road systems

.711

Rural

.712

Urban

.72

Location

Preliminary and locating surveys Grades Curves

.73

Roadbed, foundation

Earthwork Subsurface drainage

.74

Dirt roads Crowning Drainage

.75

Surfacing Oil and other binders

.76

Maintenance and repair

.77

Trees Parkings

.78

Subsurface condits, pipes, etc.

Sewers; water, steam and gas pipes as affecting roads

.79

Other topics

DECIMAL CLASSIFICATION

- 625.8 **Pavement**
 - .S1 Flagstone
 - .S2 Stone blocks and brick
 - Including cobblestone. Requirements of paving stones
 - For vitrified brick see 625.87
 - .S3 Wood pavements Corduroy, plank, blocks
 - .S4 Concrete pavements
 - .S5 Asphalt
 - .S6 Stone roads
 - Macadam, telford and other broken stone processes
 - .S7 Metal, vitrified brick, reinforced brick blocks
 - For other brick pavements see 625.82
 - .S8 Sidewalks May be divided like 625.81-.87
 - .SSS Curbs
 - .S9 Other topics
- .9 **Ship railways**
- 626 **Canal engineering**
 - .1 Route
 - .2 Water supply
 - .3 Size and shape
 - .4 Locks
 - .5 Lifts and inclined planes
 - .6 Canal boats: size, shape, etc. See 623.829 Shipbuilding
 - .7 Towing; power, etc.
 - .8 Irrigation canals and other irrigation works
 - .9 Ship canals
- 627 **River, harbor, and general hydraulic engineering.** See also 624.157 and 721.17 Subaqueous foundations
 - .1 Rivers: force of water, discharge, bars
 - River improvement
 - .2 Harbors Breakwaters
 - .3 Docks Piers Quays Shipping facilities
 - .4 Dikes and levees, embankments
 - .5 Other protection and reclamation of land from tides and waves, drainage For agricultural drainage see 631.6
 - .6 Jetties
 - .7 Dredging Dredging machinery
 - .8 Dams
 - .9 Lighthouses Buoys
- 628 **Sanitary engineering Waterworks**
 - .01 Theories, utility .02 Compendis .03 Dictionaries .04 Essays .05 Periodicals .06 Societies .07 Study and teaching .08 Polygraphy .09 History and description of sanitation and general sanitary works, divided geographically like 930-999
 - .1 **Water supply of towns** For isolated supply see 628.7
 - .11 Sources of water supply
 - Lakes, rivers, springs, wells, and pumping
 - .12 Pumping vs gravitation systems
 - Pump well, standpipe, high servis, Holley system

ENGINEERING

- 628.13 Storage and service reservoirs
- .14 Conduits, aqueducts, tunnels See 625
- .15 Mains and service pipes Freezing, iron, lead
- .16 Impurities and their removal: filter basins, etc.
- .17 Public (sprinkling, fire, flushing), manufacturing, and domestic use and waste; meters
- .2 **Sewerage works**
- .21 Sewerage systems
- .211 Combined system
- .212 Separate system
- .213 Liernur system
- .214 Shone system
- .215 Berlier system
- .216 Other systems
- .217 Outfall
- .218 Depth and alignment
- .219 Grade and velocity
- .22 Shape and size of sewers
- .221 Stormwater flow
- .222 Ordinary flow
- .223 Circular section
- .224 Ordinary egg shape
- .225 Other egg shapes
- .226 Other forms
- .228 Formulas for size
- .23 Ventilation of sewers
- .231 Openings in streets
- .232 Lamp posts
- .233 Flues in houses
- .234 Pipes on houses
- .235 House drains
- .236 Chimneys and furnaces
- .237 Charcoal and chemicals to deodorize sewer gas
- .238 Special mechanism
- .239 Special construction
- .24 Design and construction of sewers
- .25 Sewer appurtenances
- .251 Junctions
- .252 House connections
- .253 Manholes and lampholes
- .254 Flushing shafts and fixtures
- .255 Catch basins and inlets
- .256 Traps and ventilators
- .257 Valves and penstocks
- .258 Overflows and regulators
- .259 Miscellaneous

DECIMAL CLASSIFICATION

- 628.26 River crossings
- .27 Intercepting and outfall sewers
- .28 Reservoirs and tank sewers
- .29 Pumping stations
- .3 Sewage and its disposal**
- .31 Physical properties of sewage
- .32 Deodorization and disinfection of solids and liquids
See also 628.237
- .33 Subsidence
- .34 Precipitation
- .341 Precipitation tanks
- .342 Mixing machinery
- .343 Filter presses
- .344 Precipitation by salts of alumina
- .345 By lime
- .346 By salts of iron
- .347 By other methods
- .348 Disposal of sludge
- .349 Miscellaneous
- .35 Filtration
- .36 Irrigation
- .361 Broad irrigation
- .362 Ridge and furrow irrigation
- .363 Flatbed irrigation
- .364 Subsurface irrigation
- .365 Intermittent downward filtration
- .366 Carriers and appurtenances
- .367 Drains and drainage of sewage farms
- .368 Filtration areas
- .369 Miscellaneous
- .37 Sewage farming Required modifications of ordinary methods
- .38 Sewage manures See also agriculture, 631.8425
- .39 Discharge into sea, etc.
- .4 Sanitation of towns**
- .41 Middens and privies
- .42 Pail systems
- .43 Earth closet systems
- .44 Domestic ashes, garbage and refuse
- .45 Public urinals and latrines
- .46 Street cleaning and sprinkling
- .47 Pavements and subways
- .48 Trees in streets and squares
- .49 Manufacture of fertilizers from town wastes

ENGINEERING

628.5 Industrial sanitation

- .51 Factories and trades
- .511 Prevention of dust and fumes
- .512 Protection of throat and eyes
- .513 Protection against infection
- .519 Special trades
- .52 Effluvium nuisances
- .521 Situation of works
- .522 Use of high chimneys
- .523 Condensation in water
- .524 Combustion in furnaces
- .529 Special trades
- .53 Smoke nuisance
- .538 From steam generators
- .539 From special industries
- .54 Disposal of solid and liquid wastes
- .541 Discharge into streams
- .542 Absorbing wells and burial
- .543 Clarification by subsidence
- .544 Chemical treatment
- .545 Filtration
- .546 Purification by the soil
- .549 Special methods and special trades

.6 House drainage

.7 Rural water supply: villages and country houses

.8 Ventilation and heating

This head is chiefly for ventilation. Most matter on heating goes in 697
See also Heating, Ventilation, in Relativ index following tables

.9 Lighting

For other relations and applications see Lighting in Relativ index

629 Other branches of engineering

.1 *Automotive industries*

.13 Aeronautics Aerial navigation

Usual form division .09 to include general accounts of voyages, but class special voyage with type of machine used

- .141 Aerostatics
- .142 Aerodynamics, bird flight, soaring
- .143 Meteorologic conditions; wind currents, etc.
- .144 Aerodromes, flying grounds, parks
 - Experiment stations, landing places, sheds, hangars
- .145 Navigation
 - Atmospheric roads, airways; aerial maps, topography; airsickness; disasters
- .148 Laws, international and local

DECIMAL CLASSIFICATION

- 629.15 Aircraft lighter than air Aerostation
- .151 Nondirigible
 Hot air balloons, montgolfières; pilot balloons; balloon sonde; kite and
 captiv balloons
- .154 Dirigible Airships
- .155 Rigid
- .156 Semirigid
- .157 Nonrigid
- .16 Construction
- .161 Gas envelop, material
 Balloon fabrics, netting, gas used, apparatus for inflation
- .162 Car or basket, cabin, seats
 Method of attaching to gas envelop
- .163 Motors
 See 621.4387
- .164 Propellers
- .165 Steering apparatus
- .166 Balancing: gyroscope
- .167 Landing apparatus: anchors, parachutes
- .17 Aircraft hevier than air Aviation
- .171 Kites
- .172 Gliders
- .173 Monoplanes
- .174 Biplanes
- .175 More than 2 planes
- .176 Helicopters
- .177 Ornithopters or orthopters
- .179 Special adaptations: hydroaeroplanes, aviets
- .18 Construction
- .181 Structure
 Planes, wings, ailerons, etc.
- .182 Seats, cabin, etc.
- .183 Motors
 See 621.4387
- .184 Propellers
- .185 Steering apparatus
- .186 Stability, balancing apparatus
- .187 Starting and landing apparatus
- .19 Applications of aeronautics
- .2 Motor vehicles, automobiles
 Mechanically propelld and motor vehicles for highways: bicycles, motor cycles,
 etc. For highway vehicles for separate tractors (animal or mechanical) see 68

630 Agriculture

SUMMARY

- 631 Farmstead Soil
- 632 Hindrances
- 633 Field crops
- 634 Fruits Vinyards Forestry
- 635 Garden crops
- 636 Domestic animals
- 637 Dairy and dairy products
- 638 Bees, silkworms, etc.
- 639 Hunting, trapping, fish culture

.1 Rural life

Rural exodus. Improvement of country life conditions

.2 Compendis

- .23 Agricultural physics
- .24 " chemistry
- .28 " botany
- .29 " zoology

Only for general treatises. Those relating to a special subject or class with the subject: e. g. chemistry of milk 637.127

.3 Dictionaries, cyclopedias**.4 Essays****.5 Periodicals****.6 Societies, clubs, conferences**

- .61 Official institutions; government departments
- .62 Voluntary associations

Not, under government control

.621 International (International institute of agriculture)**.624-9 Associations divided by country**

Subdivided like 940-999: e. g. 630.6244 French agricultural societies, 630.6273 Patrons of Husbandry, including state and local granges; Farmers alliance, etc.
Societies of limited scope or class with their subjects; e. g. horse breeders associations 636.106

.63 Congresses, conferences, temporary organizations**.7 Study and teaching**

For agriculture as a school subject see 375.63; for school gardens see 372.36

.71 Instruction, schools**.711 Colleges** Alfabetic; but may be subdivided like 940-999 if preferd**.712 Schools** Arranged like .711 colleges**.713 Short courses****2 Summer****5 Winter****.714 Correspondence courses****.715 Institutes** Farmers institutes**.716 Courses in nonagricultural institutions****.717 Extension work**

County agent, boys and girls clubs

.719 Other instruction**.72 Research work** Experiment stations**74 Museums, exhibits****.77 Special pedagogic methods****.775 Normal training classes****.79 Competitions, prizes, etc.****.9 History, divided like 930-999**

631 The farm, farmsted Soil

SUMMARY

- 631.1 Farm economics
 - .2 " buildings
 - .3 " machinery and tools
 - .4 Land, soil, soil chemistry
 - .5 Tillage and farm operations
 - .6 Drainage and reclamation
 - .7 Irrigation and conservation of moisture
 - .8 Fertilizers
 - .9 Climate, roads, etc.
- .09 Geographic distribution of cultivation
- .091 Zones and physical regions
 - 1 Arctic regions
 - 2 Temperate zone
 - 3 Tropics
 - 4 Mountains
- 631.1 Farm economics
 - Farm and estate management
 - .11 Selecting and acquiring a farm
 - Land settlement guides
 - Location: nearness to market; means of communication, by water, by land (railways, highways), climate and rainfall
 - .112 Purchase
 - Cost, valuation, taxes
 - .113 Rent
 - .114 Share systems (Métayage)
 - See also 631.1153
 - .115 Systems of working a farm
 - 1 Owner his own farmer
 - 2 By a manager
 - 3 Share system
 - From owner's point of view
 - See also 631.114 from worker's point of view
 - 4 Renting
 - From owner's point of view
 - See also 631.113 from renter's point of view
 - .116 Scale of farm
 - 1 Large farm
 - 2
 - 3 Small farm (One-man farm)
 - .12 Laying out farm
 - Locating buildings, fields, farmsteds, roads and lanes
 - .13
 - .14 Types of farms
 - .141 Crop farm
 - .142 Vegetable farm
 - .143 Fruit "
 - .144 Woodlands
 - See 634.9 Forestry
 - .145 Stock farm
 - See 636 Domestic animals; 637.113 Dairy farms
 - .146 Fish culture in ponds
 - See 639 Hunting, trapping, fishing

AGRICULTURE

- 631.16 Finances and accounts Bookkeeping records
 .17 Expenses
 .171 Buying supplies Purchases
 .173 Wages
 .175 Insurance: bildings, stock, crop
 See also Insurance business 368.5
 .177 Packing, shipment
 For methods see 631.564
 .18 Returns Selling products
 Marketing
 .2 **Farm bildings**
 For architecture, see 728.67 Farm houses; 728.9 Outbildings
 .21 Houses Dwellings
 .22 Barns Poultry houses Stables
 .23 Granaries Silos
 .24 Carriage houses
 .25 Machine sheds
 .26 Other bildings
 .27 Fences, walls, hedges
 .28 Roads, bridges, etc.
 .3 **Farm machinery Tools, appliances, etc.**
 Care and repair of farm machinery
 .31 Clearing and soil working: general tools
 .311 Digging tools, machines, etc.
 1 Spade: turf, ditching, post, polisht-drain, longhandled garden
 spades
 Shovel: prongd shovel For steam shovel see 621.865
 Spud
 2 Small too's
 Trowel, for mason's trowel see 693. Dibble, dibber or dibbler. See
 also seeders
 3 Posthole digger
 Posthole auger or borer. Spudding bit
 4 Forks; for digging, etc. Dung-fork
 For hay forks, pitchforks, see 631.3535
 5 Digging machines
 Spaders, rotary spaders, horse shovel, road scraper
 6 Crow or crowbar
 Pick. See also mining picks 622.
 Pickax, mattock, grubbing hoe, grubbing ax
 7 Stump extractor or puller Stone gatherer Bush sithes
 .312 Plows
 1 Common plow; walking plow; hand plow
 2 Riding plow; sulky plow
 Double plow, double-furrow plow, 2-furrow plow
 Balanst plow Gang plow, multiple-furrow plow
 3 Power plow
 Steam plow, traction engin, stationary engin; oil or gas engin; electric

- 631.3124 **Reversible plow, turning moldboard plow**
Sidehil or hilside plow, turn-wrest plow, one-way plow, dril plow, also sometimes called double plow and swing plow
- 5 **Breaking plow**
Paring plow, sod plow, prairie plow, skim plow
- 6 **Pulverizing plow, stubble plow, digging plow**
Subsoil plow, mole plow
- Double mold board plow, doublebreasted p ow**
Middle "buster " or burster, middle breaker
- 7 **Other special plows**
Vinyard plow Stump jumper, or stumpjump plow
Seeding plow Skim colter plow
Scooter Bul-tung and calf-tung plow
- 8 **Disk plow**
- .313 **Harrow**
- 1 **Smoothing harrows**
Bush harrows; plank-scraper; fixt and adjustable tooth, frame harrow
- 2 **Chain harrow**
- 3 **Spring-tooth harrow**
- 4 **Curvd knife-tooth harrow, pulverizer**
- 5 **Revolving harrow**
- 6 **Disk harrow: ful disk, cutaway**
- 7 **Spading harrow, scuffle harrow**
- 8 **Special uses**
Orchard disk harrow
- .314 **Rollers, etc.**
- 1 **Rollers**
Wood, stone, metal. Hand, horse, riding, power
- 2 **Disk rollers**
- 3 **Clod crushers, clod breaker**
- 4 **Subsurface packer**
- 6 **Planker, plank drag**
- .315 **Hand gardening tools**
- 1 **Hoe**
Draw, field, bayonet, garden
- 2 **Thrust, Dutch, push, scuffle, D hoe**
- 3 **Scarifier or scraper**
- 4 **Weeder**
Hand weeder, finger weeder, weed-hoe, weeding forceps, weeding fork, weeding iron, weeding pincers, weeding tongs
- 5 **Weed cutters**
Weed hook, weeding chisel, weeding shears
- 6 **Garden rakes: wood, iron**
- .316 **Cultivators**
- 1 **Wheel hoe, hand cultivator**
- 2 **Horse cultivators**
Walking cultivators, horse hoe, shovel plow
Scarifier, scooter, scuffer, hasp, sweep, grubber
- 3 **Riding or sulky cultivators**
Balance frame
- 4 **Surface or gofer cultivator**
Heel scrape, scrape
- 5 **Disk cultivator**
- 6 **Stalk cutter**

AGRICULTURE

- 631.33 Seeding and sowing machinery
- .331 Seed sowers, seeding machines
- 1 Broadcast sowers, seeders
Hand machines
- 2 Walking
- 3 Riding
- 4 Land and row markers
- 5 Furrow sowers Drills
- 6 Walking
- 7 Riding
- 8 Special sowers
- .332 Planters
- 1 Hand, foot
- 2 Walking
- 3 Riding
- 4 Check rowers
- 8 Special planters
- .333 Fertilizer distributors
- 1 Hand machines
- 2 Walking
- 3 Riding
- 4 Liquid fertilizer
- 5 Pulverized "
- 6 Farmyard manure, manure spreaders
- .334 Mixt spreaders
Both fertilizer and seed
- .335 Propagation apparatus
Cutting benches, layering pots, etc.
- .336 Transplanters
- 1 Ballers
- 6 Tree conveyers
- .34 Equipment for care of plants, trees, etc.
- .341 Grafting, etc. implements and material
Budding knife, grafting knife, grafting wax
- .342 Pruning
- 1 Shears or pruner Hedge trimmer
- 2 Knife or hook
- 3 Chisel
- 4 Bil hook
- 5 Ax or hatchet
- 6 Saw
- 7 Scraper
- .344 Protection and shelter
See also 632.1 and 632.9
- 1 Bel glasses
- 2 Cold frames
- 3 Hot beds
- 4 Greenhouses
- 5 Forcing houses

- 631.345 Supports
- 1 Vertical cords and wires
 - 2 Poles, stakes, stays, props
 - 3 Trellises, espaliers
 - Horizontal wires or cords
 - 4 Fruit walls
- .346 Receptacles: pots, boxes, etc.
- .35 Harvesting
- .351 Hand tools, primitiv tools
- 1 Sickle, reaping hook, grass knife, grass hook
 - 2 Sithe
 - 3 Cradle, cradle sithe
- .352 Mowers
- 7 Lawn mowers
- .353 Other haying implements
- 1 Hay spreaders, tedders
 - 2 Hay rakes, gatherers, binders, windrowers
 - 3 Hay loaders
 - 4 Hay stackers
 - 5 Hay forks and carriers
- .354 Reapers
- 1 Self binders
 - 2 Harvester Combined harvester and thresher
 - 3 Heders Clover heders
- .355 Corn harvesters
- 1 Corn shockers
 - 2 Stubble cutters
 - 3 Corn pickers
 - 4 Strippers
 - 5 Toppers
- .358 Special crops
- 1 Fruits, nuts
 - 3 Legumes, peas, beans, etc.
 - 4 Root crops, etc.
 - 5 Fiber crops: cotton, flax, hemp
 - 6 Sugar cane
 - 7 Other crops
 - 8 Tree products
 - Maple (sap), pine (turpentine), gums, resins, gutta percha, ect.

AGRICULTURE

- 631.36 Machinery, tools, etc. used in preparing for storage or transport
- .361 Threshers, etc.
- 1 Primitiv tools
Flails, drags, wain
- 2 Mechanical threshers
- 3 Huskers
- 4 Shellers
- .362 Cleaning
- 1 Primitiv tools
Shovel, siv, fan
- 2 Winnowers, fanning machines
- 3 Sorters, sifters
- 6 Washers for roots and tubers
- .363 Silo machinery
Ensilage cutters
- .364 Packing for transportation or storage
- 1 Bundlers
- 2 Balers Baling presses
- 3 Bunchers
- 4 Packers: baskets, boxes
See 631.3721
- .37 Power, power transmission appliances Transport
- .371 Motiv power
- 1 Human power
- 2 Animal power
- 3 Water power
- 4 Windmils
- 5 Steam engines
- 6 Gas engins, oil and alcohol
- 7 Electricity
- .372 Tractors
- 1 Steam
- 2 Gas, oil, alcohol
- 3 Electric
- .373 Transport appliances
- 1 By carrying
Baskets, boxes, bags, etc. handbarrows
- 2 On animals backs: packs, saddlebags, etc.
- 3 Drags Sleds Stoneboats
- 4 Hand-carts, wheelbarrows
- 5 Wagons Chute wagons Drays
Dumping wagons, hayracks, lumber wagons, trucks
- 6 Motor trucks
- 9 Other vehicles
- .374 Harness Saddles
- .38 Implements for care of farm animals

- 631.4 **Land, soil**
- .41 **Soil chemistry**
 - Chemical properties and constitution of soil
 - .411 **Composition according to geologic origin**
 - .416 **Inorganic chemistry**
 - .417 **Organic chemistry**
 - .42 **Analysis and experiments**
 - Methods of investigation: chemical, mechanical
 - .43 **Soil physics**
 - .431 **Specific weight (gravity) of soil**
 - .432 **Humidity**
 - Water Ground water
 - Soil moisture: hygroscopic, capillary
 - Permeability Absorption
 - .433 **Atmosphere: air, gases**
 - .436 **Temperature**
 - Warmth of soils
 - .44 **Soil classification Adaptability**
 - Alkali lands; soils for special crops, tobacco, etc.
 - .45 **Soil fertility: maintenance, exhaustion**
 - See also 631.8 Fertilizers
 - .46 **Soil bacteriology: microbes, ferments, sterilization**
 - .47 **Soil surveys**
 - .49 **History**
 - .5 **Tillage and farm operations**
 - .51 **Soil preparation and working**
 - .511 **Spading, digging, forking**
 - .512 **Plowing, subsoiling**
 - .513 **Blasting, use of explosives**
 - .514 **Harrowing**
 - .515 **Rolling, planking**
 - .516 **Hoeing, raking, weeding**
 - .517 **Cultivating**
 - .52 **Selection, breeding, etc.**
 - .521 **Selection**
 - Seed selection**
 - “ catalogues
 - 3 **Plant selection**
 - 4 **Nursery catalogs**
 - .522 **Plant breeding**
 - .523 **Hybrids Crossing Creation of new varieties**
 - .524 **Introduction of new kinds**
 - .525 **Acclimatization**

AGRICULTURE

- 631.53 Methods of plant multiplication
 - .531 Seedage Seeds
 - 1 Sowing broadcast
 - 2 Drilling, in rows
 - 3 Planting in hills or separate seeds
 - 7 Spores
 - .532 Separation of growing plant
 - 1 Young bulbs, offsets
 - Bulbels, bulbules or bulblet; separation of small from parent bulb
 - 2 Tubers
 - Cutting into "sets" each with an eye
 - 3 Division or partition of tufted growing plants
 - .533 Detaching of separate plants
 - 1 Suckers, root suckers, stem suckers
 - 2 Runners, stolons
 - 3 Proliferous buds
 - .534 Layering
 - 1 Ordinary; each shoot makes one new plant
 - 2 Multiple, serpentine, or trench
 - 3 Mound or stool layering
 - See also 631.5323
 - 4 Circumposition, potted, aerial, air or Chinese layering
 - 6 Layering trees and shrubs
 - 7 " vines
 - .535 Cuttings
 - 1 Choice of cutting
 - 2 Preparation for planting
 - 3 Plant'ng
 - 4 Branch or stem cuttings
 - 5 Short cuttings: cuttings of single eye or bud
 - 6 Root cuttings
 - 7 Leaf and bulb scale cuttings
 - .536 Transplanting
 - For grafting and budding see 631.54
 - .54 Caring for plants
 - For protection against injuries, see 632
 - .541 Grafting
 - For bridge grafting, sometimes called bark grafting, see 632.8
 - 1 Selection of stock and scion, affinity
 - 2 Suitable age and season
 - 3 Methods of grafting Scion grafting
 - 31 Cleft grafting
 - 32 Splice "
 - 33 Whip "
 - 34 Saddle "
 - 35 Veneer "
 - 36 Bark "
 - In England and France called crown grafting, see 631.541.42; and sometimes used to mean bridge grafting, see 631.541
 - 37 Herbaceous grafting

DECIMAL CLASSIFICATION

- 631.5414 **Grafting according to position of scion**
 41 Root grafting
 42 Crown " See also 631.54136, note
 43 Stem grafting (on main stem or trunk)
 44 Top " (in top or branches)
 5 **Bud grafting Budding**
 Formerly called inoculation Flute grafting
 6 **Grafting by approach, inarching**
 7 **Binding and protecting grafts**
 8 **Indoor grafting**
- .542 **Pruning**
 1 **Winter pruning**
 11 Theories of pruning
 12 Methods of pruning
 13 Heading in
 14 Thinning of branches
 15 Scraping
 17 Time to prune
 2 **Summer pruning Work on green wood**
 21 Pinching in
 22 Nipping off buds
 23 Clipping
 24 Ringing, girdling
 27 Thinning fruit
 3 **Trimming (to secure definit shape)**
- .543
- .544 **Forcing**
 1 Bel glasses
 2 Cold frames
 3 Hotbeds
 4 Greenhouses
 5 Forcing houses
- .545 **Retardation**
- .546 **Training**
 1 Vertical, poles, stakes, cords
 3 Espalier or trellis training
 4 Wall training
 5 Arbor training
 6 Cordon training
- .547 **Stages of plant growth**
 1 Seedling
 2 Increase, growth
 3 Maturity
 4 Flowering
 5 Fruitage
 6 Ripening

AGRICULTURE

631.55

Harvesting, storage, preservation

These numbers treat of the material operations of harvesting. Class anything about a definit crop under its special number; e. g. 633.11 Wheat crop. See also 631.56 for preparation of crop for market, 636.085 for preparation of food for cattle, etc. For farther preparation of agricultural products not usually done by the farmer at the present day, see the various divisions of commerce, technology and manufactures

.552

Mowing

.553

Hay making, stacking, etc.

.554

Reaping

.555

Corn harvesting

.556

Harvesting other special crops

For cutting and felling trees see 634.9 Forestry

1

Fruits, nuts, etc.

3

Legumes: peas, beans, etc.

4

Root crops and tubers

5

Fiber crops: flax, hemp, cotton picking

6

Sugar cane, etc.

7

8

Saps, gums, resins, etc.

9

Other crops

.56

Preparation for storage and transport

See note under 631.55

.561

Preparing grains

2

Threshing, etc.

3

Husking corn, etc.

4

Shelling corn

.562

Cleaning, etc.

2

Winnowing

3

Sorting, sifting

6

Washing (roots, tubers, etc.)

.563

Storing green fodder

Cutting, and filling silos

.564

Packing for transportation or storage

2

Baling

4

Packing in baskets, boxes and barrels

.57

Special methods

.58

Fallowing

.581

Crop rotation

.582

Intensiv farming

.583

Catch crop culture

.584

.585

.586

Dry farming Deep soil culture

.587

.588

Application of special forces

1

Electro culture

2

Radio "

- 631.6 Reclamation Drainage**
- .61 Initial operations
 - .611 Prairies
 - .612 Waste lands: rocks and bushes
 - .613 Hillsides: terracing
 - .614 Forests
 - .615 Marshes Swamps
 - .616 Lands under water Polders
 - .617 Deserts
 - See 631.7 Irrigation
 - .62 Drainage methods
 - Ditches Drains (open, covered, tile)
 - .63 Drainage systems
 - Plans, layouts
 - .64 Dikes and embankments
 - .65 Water removal by machinery
 - Pumps, windmils, etc.
 - .7 **Irrigation, water supply**
 - Conservation of moisture. Rainfall, streams
 - .71 Source of water: wells, reservoirs
 - .72 Irrigating canals
 - .73 Systems of irrigation
 - Plans, etc.
 - .74 Measure and distribution of water
 - .75 Cost of water
 - .76
 - .77
 - .78 Machinery
 - .79 Methods of conserving moisture
 - Mulching
 - See also 631.586 Dry farming; 631.8 Fertilizers, amendment of soils
 - .8 **Fertilizers**
 - .81 History, nature, uses
 - .811 Nutrition of plants; necessary principles
 - .812 Production, preparation, collection, conservation
 - .813 Composition
 - .814 Loss of fertilizing principles
 - .815 Economic value
 - .816 Use Methods of application and distribution
 - .817 Purchase Transport Cost
 - .818 Frauds Adulterations Control; legislation, inspection, analysis
 - Any special fertilizer may be subdivided like 631.81; e. g.
 - 631.8525 Economic value of bone as a fertilizer
 - 631.8733 Composition of seaweed

AGRICULTURE

- 631.82 Mineral amendments
 - .821 Lime, gypsum, plaster
 - .822 Marl
 - .825 Sulfate of iron
- .83 Potash fertilizers
 - .831 Wood ashes, vegetable ashes, burning turf
 - .832 Chlorids
 - .833 Sulfates
- .84 Nitrogen fertilizers
 - .841 Ammonia
 - .842 Nitrates
 - 1 Calcium cyanid
 - 5 Sewage
- .843 Animal industry residues: skin, etc.
 - Slaughter house refuse. See also 831.852 Bone
- .844 Fish
- .845 Blood
- .846 Tankage
- .847 Vegetable nitrogen fertilizers
 - Cotton seed meal, castor beans, pomace
 - 1 Nitrifying crops
 - 2 Soil inoculation Bacteria Nitrification
 - For soil conditions see 631.46. Here class introduction of bacteria to improve the soil. The difference is the same as between 631.45 Soil fertility and 631.8 Fertilizers
- .848 Azotin, ammonite, etc.
- .85 Fosforic acid
- .851 Natural rock
- .852 Bone
- .853 Slags
- .854 Guano
- .855 Superfosfates
- .86 Farmyard and stable manures, etc.
 - Subdivided like 636; e. g. 631.862 Cow manure
- .87 Vegetable manures
 - .871 Muck
 - .872 Leaves
 - .873 Seaweed
 - .874 Green manures
 - .875 Vegetable compost
 - .876 Residue from vegetable industries
- .88 Fertilizer experiments
- .9 Climate, roads, etc.

632 Hindrances: blights, pests, insects

Including those injurious to either plants or animals, but material relating to diseases of animals is better classed in 619 or 636.089 and *may* attract all matter specially relating to animals

- .1 **Elemental destruction Protection**
- .11 Low temperature, frost, freezing
- .111 Methods of protection
- .112 Warnings: wether bureau, thermometers
- .113 Covering
- .114 Artificial clouds
- .115 Fires
- .116
- .117
- .118 Repairing damages
- .12 Excessiv heat and drout
- .13
- .14 Hail
- .15 Lightning
- .16 Wind and rain
- .17 Floods, inundations
- .18 Fires: forest and prairie
- .19 Other destructiv agents
 - Earthquakes, fumes, gas, etc.
- .2 **Galls Cecidiology**
 - No subdivision at present
- .3 **Bacteria and bacterial diseases**
 - No subdivision at present
- .4 **Fungi**
 - Divided like 589.2
- .5 **Parasitic and injurious plants**
- .58 Weeds
- .59 Plants injurious or poisonous to animals

AGRICULTURE

632.6

Injurious animals

Divided like 590, but class injurious insects in 632.7 insted of 632.657

.7

Injurious insects

Divided like 595.7

.71

Thysanura, etc.

Bristle tails or silver fish, spring tails

.72

Orthoptera

Grasshoppers, locusts, roaches, earwigs, leaf insects. See also 632.75 for leaf hoppers

.73

Pseudoneuroptera

Dragon flies, thrips

.74

Neuroptera

Lacewing flies, caddis flies

.75

Rhynchota, hemiptera

Afids, biting lice, cicads, grass flies, scale insects, chinch bug, squash bug, mealy bug, leaf hoppers. See also 632.72 for other leaf insects

.76

Coleoptera

Beetles, flat-hed and round-hed borers, weevils, wire worms

.77

Diptera

Flies, mosquitos, gnats, midges, fleas, root maggots, army worm, Hessian fly

.78

Lepidoptera

Butterflies, moths, caterpillars

.79

Hymenoptera

Ants, bees, wasps; saw, gall, and ichneumon flies

.8

Diseases and injuries

Other than covered by 632.2--7

.9

Means of protection

Other than covered by 632.1; e. g. netting and covers, screens, gards, scarecrows

.94

Methods and apparatus

Spraying, dusting, fumigating

.95

Preparations and materials

.951

Insecticides

.952

Fungicides

.953

Antiseptics

.96

Natural enemies of pests

May be subdivided like 590

633 Field crops: grains, grasses, fibers, etc.

SUMMARY

- .1 Cereals, grains
- .2 Grasses
- .3 Legumes
- .4 Root crops
- .5 Fiber crops
- .6 Sugar plants and starch
- .7 Alkaloidal plants
- .8 Perfumes, spices, condiments, etc.
- .9 Other plants

.1 Cereals**.11** Wheat**.12** Buckwheat**.13** Oats**.14** Rye**.15** Corn, maize**.16** Barley**.17** Millet, sorghum, etc.**.171** Millet**.172** Panic grass**.173** Prosos**.174** Sorghum

For sweet sorghum see 633.62

.175 Broom corn**.176** Shallu**.177** Kafir, milo maize

White kafir, blackhul kafir, red kafir

.178 Durra, Jerusalem cornYellow milo, brown durra, white durra, rice corn, white Egyptian corn.
Egyptian corn**.18** Rice**.19** Other**.2 Forage crops: grasses**

Class here general treatises on forage crops. Divided according to Häckel

.21 Blue grass *Poa***.22** Orchard grass *Dactylis***.23** Red top, bent grass *Agrestis***.24** Timothy *Phleum***.25** Cereal grasses Divided like 633.1 Cereals**.26** Other cultivated grasses**.261** Bermuda grass *Cynodon***.262** *Bromus***.263** Rye grass *Lolium***.264** Fescues *Festuca***.265** Oat grass *Arrhenatherum***.266** *Paspalum***.267** *Phalaris***.27**

AGRICULTURE

- 633.28 Other grasses
 Class here only such grasses as hav no specific number
 Divided like Hackel in 633.21-.267
- .281 *Maydeae*
Zoysicæ
Tristegineæ
- .282 *Andropogonæ*
- .283 *Panicææ*
- .284 *Oryzææ*
Phalarideæ
- .285 *Agrostideæ*
- .286 *Aveneæ*
- .287 *Chlorideæ*
- .288 *Festuceæ*
- .289 *Hordeææ*
Bambuseææ
- .3 Forage crops: legumes, etc.
- .31 Alfalfa *Medicago*
 Black medic, bur clover
- .32 Clovers, berseem *Trifolium*
- .33 Cowpeas *Vigna*
- .34 Soybean *Glycine*
- .35 Vetches *Vicia*
- .36
- .361 Sainfoin *Onobrychis*
- .362 Kidney vetch *Anthyllis*
- .363 Velvet bean *Mucuna*
- .364 Japan clover *Lespedeza*
- .365 Beggar weed *Meibomia* *Desmodium*
- .366 Sweet clover *Melilotus*
- .367 Lupin *Lupinus*
- .37 Other legumes
- .371 *Sophoreææ*
- .372 *Podalyrieææ*
Genisteææ
Trifolieææ
- .373 *Loteææ*
- .374 *Psoraleææ*
- .375 *Galegeææ*
Hedysareææ
- .376 *Valbergieææ*
- .377 *Vicieææ*
- .378 *Phaseoleææ*
- .379
- .38
- .39 Other forage crops

633.4 Root crops

These are practically all also classed as vegetables in 635.1 and .2 and for convenience of correspondence the same arrangement is followed here: 633.4 divided like 635.1 and 633.49 divided like 635.2

- .41 Beet *Beta vulgaris*
See also 633.63 Sugar beet
- .416 Half sugar mangel
- .417 Mangel and mangel wurzel
- .42 Turnip *Brassica rapa*
- .425 Hybrid turnip
- .426 Rutabaga *Brassica campestris*
- .43 Carrot *Daucus carota*
- .44 Parsnip *Pastinaca sativa*
- .49 Tubers and bulbs
- .491 Potato *Solanum tuberosum*
- .492 Sweet potato *Ipomoea batatas*
- .494 Jerusalem artichoke *Helianthus tuberosus*
- .5 Textile fibers, cordage, plaiting, basket, etc.
- .51 Cotton *Gossypium*
- .52 Flax *Linum*
- .53 Hemp *Cannabis*
For other fibers known as hemp, see 633.56-.57. Brown and Indian hemp are indefinite. For 'true Indian hemp' see 633.567
- .54 Jute *Corchorus*
- .55 Ramie, China grass *Boehmeria*
- .56 Other soft fibers
- .561 China jute *Abutilon*
- .562 Sunn hemp *Crotalaria*
Bengal, Bombay, Conkanee, false, Konkan, Madras or Salsette hemp or Travancore flax; also incorrectly Dekkan or Ambari hemp. Jubbulpore or Jabbalpur hemp
- .563 Ambari or Dekkan hemp *Hibiscus*
Kanoff and Gambo hemp. Dekkan hemp also known in market as Binlipatam jute
- .564 Majagua *Paritium* *Hibiscus tiliaceus*
- .565 Olona *Toucharidia*
- .566 Colorado river hemp *Sesbania*
- .567 Canada (or Indian) hemp *Apocynum*
True Indian hemp; also called black Indian hemp
- .57 Hard fibers
- .571 Manila hemp, Abaca *Musa*
- .572 New Zealand hemp *Phormium*
- .573 Mauritius hemp *Furcraea*
- .574 Bowstring hemp *Sansevieria*
- .575 Bromelia fibers
- .576 Pineapple fiber *Ananas*

AGRICULTURE

633.577

Agave fibers

- 1 **Sisal, henequen** *Agave rigida*
- 2 **Ixtle, istle, tampico** *Agave heteracantha*
 Jaumave istle *Agave lophantha*
 Tula istle *Agave Lecheguilla*; also *A. univittata*, *A. caeruleascens*,
 A. Kerchoevii
 Palm istle *Palma samandoca*, *Samuela carnerosana*, *Palma pita*,
 Yucca treuleana
- 3 **Manila maguey** *Agave Cantula*
- 4 **Aloe fiber**
- 5 **Maguey fiber** *Agave atrovirens*, *A. collina*, *A. Potosina*,
 A. Tequilana, *A. vivipara*
- 6 **Zapupe.** "zapupe verde", "zapupe azul"

- .58 Fibers for plaiting, basket and wicker work; ruf weaving
- .581 Coir, coconut fiber *Cocos*
- .582 Raffia *Raphia*
- .583 Esparto grass, alfa, halfa *Stipa*
- .584 Hat fibers
 Jipijapa plant *Carludovica* Panama hats
 Yaraw or hat palm *Inodes*
 Straw, wheat, rye, barley, rice; in agricultural aspect better clast in 633.1
- .585 Rushes and sedges *Juncus* *Cyperaceae*
- .586 Reeds *Arundo*
- .587 Bamboo
- .588 Osier, willow *Salix*
 Other woods, splints, rattan
- .59 Fibers for other industrial uses
 Filling or stuffing fibers, calking natural fibers: Cuba bast, etc. brush fibers,
 broom root, paper materials, usually better clast from agricultural standpoint
 with other uses of the material

.6 Sugar plants and starch

- .61 Cane *Saccharum*
- .62 Sorghum *Andropozon sorghum* Brot. *S. vulgare* Linn.
- .63 Sugar beets *Beta*
- .64 Maple *Acer saccharum* Marsh
- .65 Palm
- .66 Other sugar plants
- .68 Starch
 Single plants usually better clast from agricultural standpoint with other uses
 of these plants; e. g. wheat, corn, rice, potatoes, etc.

.7 Alkaloidal plants

For those chiefly medicinal see 633.88

- .71 Tobacco *Nicotiana*
- .72 Tea *Canellia thea* Link *Thea* Linn.
- .73 Coffee *Coffea*
- .74 Cacao, coco, chocolate *Theobroma*
- .75 Poppy (opium) *Papaver*
- .76 Kola or cola
- .77 Maté *Ilex*
 Brazil or Paraguay tea, Jesuits tea, yerba
- .78 Chicory, succory *Cichorium*

- 633.8 **Perfumes, spices, condiments, etc.**
- .81 Perfumery
 See also 668.5
- .811 Floral: rose, jasmin, violet
- .812 Herbal: lavender, rosemary, geranium, patchouli
- .813 Citrin: bergamot
- .814 Woods: sandalwood, cedar
- .815 Roots: orris, vetiver
- .816 Balms and gums: myrrh, benzoin
- .82 Flavoring
- .821 Vanilla
- .822 Mints *Mentha*
- .823 Wintergreen *Gaultheria*
- .824 Sassafras
- .825 Ginger *Zingiber*
- .83 Spices
 See also 664.5
- .831 Allspice
- .832 Cloves
- .833 Cinnamon
- .834 Nutmeg
- .84 Condiments
- .841 Pepper *Piper*
- .842 Red pepper, paprika *Capsicum*
- .843 Chili *Capsicum*, specially *c. fastigatum*
- .844 Mustard
- .845 Capers
- .846 Horseradish
- .85 Oil producing plants
 Usually better class from agricultural standpoint with the purpose for which
 the oil or plant is used
- .86 Vegetable dyes, dye plants
- .861 Yellow
- .862 Blue
- .863 Red
- .864 Green
- .87 Tanning material
 Usually better class from agricultural standpoint with the tree or plant from
 which the material is derived
- .871 Sumac Canaigre
- .88 Medicinal plants
- .89 Other

634 Fruits, orchards, vinyards, forestry

SUMMARY

- .1 Pomaceous fruits
- .2 Drupaceous "
- .3 Citrous "
- .4 Minor fruits
- .5 Nut "
- .6 Palmaceous fruits
- .7 Small fruits
- .8 Grapes
- .9 Forestry

- .1 **Pomaceous or pome fruits**
- .11 Apple *Pyrus malus*
- .12 Crab apple
- .13 Pear *Pyrus*
- .14 Quince *Cydonia*
- .15 Medlar *Mespilus*
- .16 Loquat, Japan plum *Eriobotrya Japonica*
- .2 **Drupaceous or stone fruits** *Prunus*
- .21 Apricot *Prunophora*
- .22 Plum *Prunophora*
- .23 Cherry *Cerasus*
- .24 Racemose cherries: wild cherry, choke cherry, padins, sand cherry
- .25 Peach *Amygdalus* or *Prunus Persica*
- .26 Nectarin (variety)
- .3 **Citrous fruits: orange family, etc.**
- .31 Orange *Citrus aurantium*
- .32 Varieties
- .321 Trifoliolate *C. trifoliata*
- .322 Mandarin, tangerine, kid glove orange *C. nobilis*
- .323 Grape fruit, pomelo, shaddock *C. decumana*
- .324 Kumquat *C. Japonica*
- .33 Citron group *C. medica*
- .331 Citron var. *genuina*
- .334 Lemon " *limon*
- .337 Lime " *acida* or *limetta*
- .34 Other
- .341 Glycosmis *G. aurantiaca*
- .342 Lime berry, bergamot lime *Triphasia trifoliata* or *aurantiola*
- .343 White sapota, cochil sapota *Casimiroa edulis*
- .36 Moraceous fruits Mulberry family
- .37 Fig *Ficus Carica*
- .38 Mulberry *Morus*
- .39 Bred fruit *Artocarpus incisa*

634.4

Minor fruits

- .41 Anonaceous fruits, custard apple family
 .411 Sour-sop *Anona muricata* or *Asiatica*
 .412 Sweet-sop, sugar apple *A. squamosa*
 .413 Cherimoya; Jamaica apple *A. cherimolia*
 .414 Pond apple; mamon *A. glabra* or *laurifolia*
 .415 Custard apple; bullocks hart *A. reticulata*
 .418 Northern papaw *Asimina triloba*
 .42 Myrtaceous fruits, myrtle family
 .421 Guava *Psidium*
 .422 Rose apple; jamrosade *Eugenia jambos*
 .423 Surinam cherry: Cayenne cherry; pitanga *Eugenia*
uniflora or *Michellii*
 .43 Sapotaceous fruits, star apple or sapodilla family
 .431 Sapodilla, naseberry *Achras sapota*
 .432 Marmalade tree or plum *Mammea sapota*, *Lucuma*
mammosa
 .433 Star apple *Chrysophyllum Cainito*
 .44 Anacardiaceous fruits, cashew family
 .441 Mango *Mangifera Indica*
 .442 Jew plum, Pomme Cythere, sweet Otaheite apple
Spondias dulcis
 .443 Spanish plum *Spondias purpurea*
 .45 Ebenaceous fruits; ebony family
 .451 Kaki; Japan persimmon *Diospyros Kaki*
 .452 Persimmon *D. Virginiana*
 .46 Leguminous fruits; bean family
 .461 Tamarind *Tamarindus Indica*
 .462 St Johns bred; carob; karoub; algaroba *Ceratonia*
siliqua
 .5 **Nut fruits Nuciculture**
 .51 Walnut Juglars
 .511 Persian or English walnut *J. regia*
 .512 Black walnut *J. nigra*
 .513 Japan walnut *J. Sieboldiana*
 .518 Butternut, white walnut *J. cinerea*
 .52 Hickory nut *Hicoria*
 .521 Pecan *H. pecan*
 .522 Shagbark or little shelbark hickory *H. ovata*
 .523 Big or bottom shelbark hickory *H. laciniata*
 .524 Pignut *H. glebra*

AGRICULTURE

- 634.53 Chestnut *Castanea*
 .531 European chestnut *C. sativa* or *vesca*
 .532 American chestnut *C. americana*
 .533 Japan chestnut *C. crenata* or *Japonica*
 .537 Chinkapin *C. pumila*
 .54 Filbert, hazelnut, cobnut *Corylus*
 .55 Almond *Prunus*
 .551 Almond *P. amygdalus*
 .552 Russian almond *P. nama*
 .555 Tropical almond *Terminalia Catappa*
 .57 Miscellaneous nuts
 .571 Litchi, Leechee *Nephelium Litchi*
 .572 Ginkgo *G. biloba*
 .573 Cashew *Anacardium occidentale*
 .574 Pistachio *Pistacia vera*
 .58 Peanuts *Arachis hypogaea*
.6 Palmaceous fruits
 Palm family and miscellaneous tree fruits
 .61 Coconut, coco palm *Cocos nucifera*
 .62 Date palm *Phoenix dactylifera*
 .63 Oliv *Olea Europea*
 .64 Pomegranate *Punica granatum*
 .651 Papaw; melon papaw, melon zapote *Carica*
 .652 Spanish lime Ginep *Melicocca bijuga*
 .653 Alligator or Avocado pear *Persea gratissima*
 Aquacata, midshipmans butter
 .654 Mammee apple, S. Domingo apricot *Mammea Amer-
 icana*
 .661 Hovenia
 .662 Jujube *Zizyphus*
 .663 Myrica
 .664 Seagrape; shore grape *Coccoloba uvifera*
 .665 Pigeon plum *Coccoloba Floridara*
 .666 Otaheite gooseberry *Phyllanthus distichus*
 .667 Strawberry tree *Arbutus unedo*
.7 Small fruits, bush fruits and herblike fruits
 .71 Rubaceous, cane or bramble fruits *Rubus*
 .711 Raspberries
 1 European 2 Black cap 3 Red
 .712 Oriental raspberries, wineberry, Japanese wineberry
 .713 Blackberry
 .714 Loganberry
 .717 Dewberry
 1 Northern 2 Southern 3 Pacific

DECIMAL CLASSIFICATION

- 634.72 Ribaceous fruits Groselles *Ribes*
 .721 Currants
 .722 Garden or common currant *R. rubrum*
 .723 Black currant
 1 European *R. nigrum*
 2 American *R. Americanum*
 3 California *R. bracteosum*
 .724 Buffalo, Missouri, flowering or golden currant *R. aureum*
 .725 Gooseberry
 .726 European *R. grossularia*
 .727 American *R. oxycanthoides*
 .73 Huckleberry, blueberry, etc.
 .731 Blue tangleberry or dangleberry *Gaylussacia frondosa*
 .732 Black huckleberry *G. resinosa*
 .734 Low or dwarf blueberry *Vaccinium Pennsylvanicum*
 .735 Canadian blueberry *V. Canadense*
 .736 Low or pale blueberry *V. vacillans*
 .737 Swamp blueberry, high huckleberry *V. corymbosum*
 .74 Miscellaneous bush fruits
 .741 Juneberry *Amelanchies*
 .742 Buffalo berry *Lepargyrea argentea* *Shepherdia argentia*
 .743 Goumi *Elaeagnus longipes* or *multiflora*
 .744 Caraunda Christ'sthorn *Carissa Carandas*
 .745 Cranberry bush, high or tree cranberry *Viburnum opulus*
 .746 Barberry *Berberis*
 .747 Elderberry
 .75 Strawberry *Fragaria*
 .751 Garden strawberry, pine strawberry *F. chiloensis*
 .752 Hautbois strawberry *F. moschata*
 .753 Alpin and perpetual strawberry *F. vesca*
 .754 Scarlet or Virginia strawberry *F. Virginiana*
 .76 Cranberry *Vaccinium macrocarpor*, etc.
 .77 Nonwoody or herblike fruits
 .771 Musacious fruits *Musa*
 .772 Banana *Musa sapientium*
 .773 Plantain banana, cooking banana, Adam's fig var. *paradisica*
 .774 Pineapple *Ananas sativus*
 .775 Cactaceous fruits
 1 Prickly pear, tuna *Opuntia tuna*
 4 Indian fig *Opuntia ficus Indica*
 7 Barbados gooseberry, lemon vine, blad apple *Pereskia aculeata*
 .776 Miscellaneous herblike fruits
 1 Cyphomandra; tree tomato *Cyphomandra betacea*
 2 Ceriman *Monstera deliciosa*

634.8 Grapes, vineyards

.9 Forestry

635 Garden crops; kitchen and market gardening

SUMMARY

- .1 Edible roots, including tubers and bulbs
- .2 Tubers and bulbs
- .3 Edible leaves or flowers
- .4 Greens, pot herbs
- .5 Salads
- .6 Edible seeds and fruits
- .7 Condimental and sweet herbs
- .8 Mushrooms, truffles
- .9 Floriculture

.1 Edible roots

.11 Beet

.12 Turnip

Usually a field crop. See 633.42

.126 Rutabaga Swedish turnip Turnip-rooted cabbage

.127 Navew, French turnip

.128 Celeriac, turnip-rooted celery

.13 Carrot

.136 Turnip-rooted chervil

.137 Chicory

Better in 633.78

.14 Parsnip

.15 Radish

.16 Salsify, oyster plant, vegetable oyster

.166 Scorzonera, black salsify

.167 Scolymus, Spanish salsify

.2 Edible tubers and bulbs

.21 Potato

.22 Sweet potato, Spanish potato, batata

.23 Yam

.24 Jerusalem artichoke, topinamber

.25 Onion

.26 Other plants of Allium family

.261 Leek

.262 Garlic

.263 Shallot, scallion

.264 Cibol, Welsh onion (French, ciboule)

.265 Cive, chive

- 635.3 **Edible leaves, flowers and stems**
- .31 Asparagus
- .32 Artichoke
- .327 Cardoon, chardoon
- .33 Sea kale
- .34 Cabbage
- .346 Kale or borecole
- .347 Collards
- .348 Kohlrabi
- .35 Cauliflower
- .356 Broccoli
- .36 Brussels sprouts
- .4 Greens
- .41 Spinach
- .42 Chard, sea-kale beet, Swiss chard
- .43 Orach, French spinach
- .44 Mustard
- .45 Sorrel Dock
- .46 Dandelion Purslane (pusley)
- .48 Rubarb
- .5 Salads
- .51 Bitter salads
- Dandelion. See 635.46
- Cardoon. " 635.327
- .52 Lettuce *Lactuca sativa*
- .53 Celery *Apium graveolens*
- .54 Chicory or succory *Cichorium intybus*
 Also used as pot herb and root
- .55 Endive *Cichorium endivia*
- .56 Piquant or warm salads
- Class any species or variety with its genus; e. g. bitter cress, *cardamins amara* with 635.562
- .561 Water cress *Nasturtium officinale*
- .562 American water cress *Cardamine rotundifolia*
- .563 Garden cress *Lepidium sativum*
- .564 Winter cress *Barbaria vulgaris*
- .565 Swine cress *Senebiera coronopus*
- .566 Indian cress *Tropaeolum majus*
 For mustard see 635.44
- .57 Neutral salads
- Lamb's lettuce, corn salad, feticcus

- 635.6 Edible seeds and fruits**
- .61 Melons
 - .611 Muskmelon: cantaloup, nutmeg, winter, etc.
 - .615 Watermelon: preserving or "citron"
 - .618 Zit kwa, wax gourd
 - Chinese preserving melon, Chinese watermelon
 - .62 Squashes
 - .621 Summer or bush squashes
 - Crooknecks, scallop or pattypan, pineapple
 - .622 Fall and winter, or longrunning squashes
 - Canada crookneck, Hubbard
 - .623 Vegetable marrow
 - .624 Pumpkins
 - .627 Luffa, rag gourd, dishcloth gourd, vegetable sponge
 - .63 Cucumbers Gherkins Martynia
 - .64 Tomato
 - .646 Egplant, guinea squash, aubergine
 - .647 Physalis, husk tomato, strawberry tomato
 - .648 Okra or gumbo
 - .65 Beans
 - .651 Broad bean
 - .652 Kidney bean: garden, snap and string bean; haricots
 - .653 Lima or sugar bean
 - .654 Dolichos
 - .655 Soy or soja bean See 633.34
 - .66 Peas
 - .667 Chick pea *Cicer arietinum*
 - .668 Lentils *Lens esculenta*
 - .67 Sweet corn
 - .677 Pop corn
 - .7 Condimental and sweet herbs
 - For the regular condiments of commerce see 633.84 and 664.5
 - .71 Seasoning leaves and flowers
 - .72 Garden mint, spearmint
 - .74 Flavoring for pickles, vinegar, etc.
 - Dil, tarragon, samfire, costmary
 - .75 Seeds for flavoring
 - Anis, coriander, carraway
 - .76
 - .77
 - .78 Garnishes: parsley, leaf chervil
 - .8 **Mushrooms, truffles**
 - .9 **Floriculture**

636 Domestic animals

.08 Zootechny

The breeding and keeping of animals in domestication

SUMMARY

- .081 Selection Economics
 - .082 Formation of stock, races, breeding
 - .083 Care
 - .084 Feeding
 - .085 Food; general questions
 - .086 Foods; divided like 633
 - .087 Other foods
 - .088 Utilization and training
 - .089 Hygiene Diseases
- o31 Selection Economics, etc.
- 1 Selecting and acquiring stock
 - 11 Capture
 - Of wild animals and of domesticated animals allowed to run wild.
 - " Round up " of western ranches
 - 111 Capture by snares, traps, nets, etc.
 - 112 " " wepons, guns, etc.
 - 113 " " help of other animals, dogs, horses, ferrets, hawks, etc.
 - 12 Purchase Original cost
 - 13 Barter Horse trade
 - 14 Standards of excellence Points
 - 15 Soundness Imperfections Blemishes
 - 16 Estimating age
 - 2 Brands and branding and other marks of ownership
 - 28 Catalogs of brands
 - 3 Stock farms Ranches
 - 31 Descriptions of individual farms
 - Alfabetic
 - 6 Finances and accounts
 - 7 Expenses
 - 71 Supples, food, etc.
 - 73 Wages
 - 75 Insurance
 - 8 Returns, yield, profit
 - 81 Weight tables
 - 87 Stock farm catalogs
 - 88 Catalogs of sales

AGRICULTURE

636.082

Formation of stock

Races, breeding, heredity, etc.

- 1 Character of herd, flock, colony, etc.
- 11 **Species, races, breeds, strains; heredity, variation**
- 2 Herd books, stud books, flock books, etc.
- 3 Composition of herd, flock, colony; sexes
Including notes and articles about the different kinds
- 31 **Male**
- 32 **Female**
- 33 **Neuter** (of bees)
- 34 **Castrated male** **Gelding**
- 35 " **female**
- 36 **Young animals**
- 37 Males
- 38 Females

4 **Breeding** **Reproduction**

- 41 **Breeding in and in**
Line breeding. Animals closely related by blood
- 43 **Cross breeding**
- 431 **Hybrid**
Individuals of different species
- 432 **Métissage**
Individuals of different races
- 44 **Choice of parents**
- 45 **Generation**
- 451 **Sexual excitement: heat, rut**
- 453 **Sexual union**
- 454 **Impregnation**
Fusion of male and female element
- 46 **Laying of eggs**
- 461 **Nests**
- 47 **Incubation** **Hatching**
- 471 **Natural**
- 474 **Artificial** **Incubators**

.083

Care of animals

- 1 **Bilding and installation**
Stalls, boxstalls, pens, nests
- 2 **Care of stables or houses**
Clenliness, bedding
- 3 **Care of animals**
Grooming, clipping
- 37 **Special care of young**
Brooders 636.5
- 4 **Care of feet** **Shoeing**
- 5 **Care of animals outdoors**
Shepherds, watch dogs, etc.
- 6 **Acclimatization**
- 61 **Protection from cold: blankets**
- 62 " " **heat**
- 66 " " **wind and rain**
- 7 **Care of harnesses and accouterments**

DECIMAL CLASSIFICATION

- 636.084 Feeding
 - 1 Feeding of young
 - 11 Suckling
 - 12 Weaning
 - 13 Hand or artificial feeding
 - 2 General methods of feeding
 - 21 In stables, houses, etc.
 - 22 In pasture
 - 23 Mountain pastures, ranches
 - 31 Special provisions: water, salt, etc.
 - 4 Ordinary, rational feeding
 - 41 Rations Amount and proportion
 - 42 Kind and times of feeding
 - 45 Substitutions Variety
 - 5 Feeding for special purposes
 - 51 For breeding time
 - 52 For increase production: milk, eggs, etc
 - 53 For work
 - 55 For fattening
 - 56 Forced feeding, cramming
- .085 Food
 - 1 Composition
 - 2 Nutritive value
 - 3 Food experiments
 - 4 Commercial value
 - 5 Different kinds of food
 - For individual foods see 638.086 and .087
 - 51 Fresh or green fodder
 - 52 Ensilage
 - 54 Dry fodder
 - Hay, straw, grains
 - 57 Prepared foods
 - Industrial residues Cakes of oily grain or fruit
 - 6 Preparation and use of food
 - 9 Adulterations of foods for animals
- .086 Foods
 - Divided like 633
 - 13 Oats
 - 15 Corn
 - 2 Forage crops, hay
 - 25 Straw
 - 255 Cornstalks
 - 32 Clover
 - 41 Beets

AGRICULTURE

- 636.087 Other foods
- 4 **Fruits**
Divided like 634
- 5 **Garden crops**
Divided like 635. Use only for material not covered by subdivisions of 633
- 6 **Animal food**
- 7 **Mineral foods: salt, condiments**
- .088 Utilization and training of animals
- 1 For breeding purposes
- 2 For work
- 3 For production of food: meat, eggs, etc.
- 4 For animal products
Wool, skins, fethers, etc.
- 6 Breaking, training, etc.
- 61 To saddle, etc. for carrying purposes
- 62 To harness, for work
- 66 Special training
- 661 Carrying messages
- 662 Hunting
- ,089 Hygiene, diseases, etc.
Hygiene is usually better clast 614.9, and Diseases 619
- 1 Anatomy
- 2
- 3 Hygiene
- 5 Remedies, materia medica
- 6 Diseases
- 7 Surgical operations
- .1 **Horse**
- .11 Oriental horse
Arabian, Persian, Tartar, Turkish, Barb
- .12 Speed horse, race horse, light type, 'hot blooded'
- .121
- .122 English thorobred or running horse
- .127 Other European
- 1 **Russian Orloff trotters**
- .128 American trotter or pacer
- 1 **Morgan**
- .13 Saddle horse
Hunter; military (charger, cavalry horse, etc.), American saddle, Kentucky saddle, cob, park hack, palfrey

DECIMAL CLASSIFICATION

- 636.14 Coach or carriage horses
 Harness horse
- .142 English coach
 1 Cleveland bay
 2 Yorkshire coach
 3 Hackney
- .143 German coach
 East Prussian or Trakehner, East Friesland, Rhenish Prussian, Mecklen-
 burg, Schleswig, Hanoverian, Oldenburg, Holstein
- .144 French coach, ' demisang '
- .145 Italian: Corsican
- .15 Draft horse, cart horse, hevy type, ' cold blooded '
- .152 English
 1 Clydesdale
 2 Suffolk punch or draft
 3 Black or shire draft
- .154 French and Belgian
 1 Norman, Percheron
 2 Ardennais
 3 Boulonnais
 4 Breton
 5 Nivernais
 8 Belgian draft, Flanders dray, Flemish horse
- .158 American draft
 Conestoga
- .16 Ponies
- .161 Ponies for special purposes: polo
- .162 Scotch, English and Welsh
 1 Shetland
 2 Galloway
 4 Exmoor
 5 Dartmoor
 6 New Forest
 9 Welsh
- .168 American
 Mustang, bronco, Indian pony
- .18 Allied animals
- .182 Ass: jackass, donkey, burro
 Asiatic, Catalanian, Italian, Maltese
- .183 Mule, hinny
- .184 Zebra, quagga, etc.
- .185 Zebrule, zebroid

AGRICULTURE

- 636.2 Cattle Greater ruminants**
 May be divided like 636.081-.089, but for utilization use .21
- .21 **Uses**
 Subdivide like 636.038 See note above
- .22 **English cattle**
- .221 **Old stocks**
 Forest cattle, wild white, Chillingham
- .222 **Beef breeds**
- 1 **Short horns**
- 2 Durham
- 3 Teeswater
- 4 Lincolnshire
- 5 Red shorthorn
- 6 **Hereford whitefaced**
- 7 Polled Hereford
- 8 **Sussex**
- .223 **Scotch, Welsh and Irish beef breeds**
- 1 **Aberdeen Angus**
 Angus doddie, Buchan humbries, polled Aberdeen
- 2 **Galloway**
 Blue gray
- 3 **West highland: Kyloe**
- 6 **Black Welsh**
- .224 **Dairy breeds**
- 1 **Channel island cattle**
- 2 Alderney
- 3 Jersey
- 4 Guernsey
- .225 **Scotch and Irish dairy**
- 1 Ayrshire
- 2 Dunlop
- 3 Cunningham
- 6 Kerry
 Dexter Kerry, Dexter shorthorn
- .226 **Dual purpose breeds**
- 1 **Devon**
 North Devon, Rubies, South Devon
- 2 **South Hams**
 Hammers
- 3 **Polled Durham**
- 4 **Red polled**
- 5 Norfolk
- 6 Suffolk
- 7 East Anglian
- 8 **Longhorn (English)**
 Dishley

- 636.23 German, Dutch and Swiss cattle
 - .232 Beef breeds
 - .234 Dairy breeds
 - 1 Holstein
 - 2 Holstein Friesian
 - 3 East Friesian
 - 4 Oldenburg
 - .235 Dutch
 - 1 Dutch Friesian, Netherland, North Holland
 - 4 Dutch belted: Lakenfelds, Lakenvelders, Veldlakers
 - 6 Danish
 - 7 Jutland
 - .236 Dual purpose
 - .237 Swiss
 - 1 Brown Swiss
 - 2 Simmental
 - 3 Bernese
 - 4 Spotted race
- .24 French and Belgian
 - .242 Beef
 - .244 Dairy
 - 1 Breton, Brittany
 - .245 Belgian dairy
 - 1 Flamande, Flemish
 - 2 Rosenstein
 - .246 Dual purpose
 - 1 Norman
 - 2 Cotentin
- .27 Other European
 - .271 Russian
 - Kolmogorian
- .28 Other countries
 - .282 American beef breed
 - 1 Longhorn, Texas steer
 - .283 American dairy breed
 - 1 American Holderness, Holderness
 - 2 French Canadian, Quebec Jersey
- .29 Allied animals
 - .291 Brahmin sacred cattle; zebu
 - .292 Bison family
 - 1 Bison; American buffalo
 - 2 Cattalo
 - Hybrid of bison and cow
 - 3 European bison

AGRICULTURE

- 636.293 Buffalo or water buffalo *Bubalus*
 Bhains, mhains, arna, arni (Hindu)
 Moonding (Sudan)
 Karbo or Karbon (Malay)
 Carabao (Philippines)
- .294 Deer, reindeer
- .295 Camel: Arabian, Bactrian; dromedary
- .296 Lama, llama, alpaca
- .297I Yak
- 2 Gayal, gaur
- 636.3 Sheep, goats **Smaller ruminants**
 May be divided like 636.081-.089, but for utilization use .31
- .3I **Uses**
 Subdivide like 636.088 See note above
- .32 **English breeds**
- .32I **Longwool breeds (coarse wool)**
- 1 **Cotswold**
- 2 **Leicester**
 English Leicester, New Leicester or Dishley, Bakewell's Leicester
- 3 **Border Leicester**
 Halfbred or Leicester-Cheviot or Cheviot-Leicester or Upland Leicester
- 4 **Lincoln**
- 5 **Kent or Romney marsh**
- 6 **Wensleydale**
 Bluefaced Wensleydale, Wensleydale longwool, Wensleydale blueface,
 Teeswater
- 7 **Devon longwool, Southam nols, Bampton nols**
- 8 **South Devon or South Dum**
- 9 **Roscommon**
- .322
- .323 **Shortwool breeds**
 Medium-wool; middle-wool; down sheep; mutton sheep
- 1 **Southdown, Sussex, Sussex down**
 Including Underhill and Upperdown
- 2 **Hampshire down, improved Hampshire down, Wiltshire brook,
 Berkshire knot, Wiltshire hornd**
- 3 **Dorset or West country down, Dorset horn, hornd Dorset**
- 4 **Oxford or Oxfordshire down**
 Before 1859 call'd Down-Cotswold
- 5 **Suffolk down, old Norfolk, hornd Norfolk**
- 6 **Shropshire down, Morfe common**
- .324I **Dorset and Somerset horn**
- 2 **Ryeland or Lempster**
- 3 **Clun Forest, Wicklow (Irish)**
- 4 **Kerry Hill (Irish)**
- 5 **Radnor**

- 6,36.325 Mountain breeds
- 1 Cheviot
 - 2 Blackfaced
Scotch blackface or blackfaced Scotch, Linton Forest, Lammermuir,
Tweeddale, blackfaced highland
 - 3 Herdwick
 - 4 Lonk or Lank Lancashire blackfaced
 - 5 Penistone
 - 6 Limestone, Limestone Crag
 - 7 Ruf Swaledale
 - 8 Shetland, Orkney, Hebrides
- .3261 Derbyshire gritstone
- 2 Dartmoor
 - 3 Exmoor Exmoor horn
 - 4
 - 5
 - 6 Cornwall
 - 7 Welsh mountain
- .33 German and Dutch breeds Swiss
- .331 Low country or marsh sheep
Hornless and short tailed
- 1 Dutch Texel
 - 4 Friesian
East and North Friesland, Eiderstedt, Ditmarsh, Butjading, Zealand
 - 7 Northeast German
Vaga, Elbingen
- .333 Upland sheep, heath sheep (German heidsnucken)
- 1 Pomeranian or Polish, Mecklenburg (Spiegelschaf)
 - 2 Hessian
 - 3 Bavarian or Zaupel Franconian (Frankenschaf)
 - 4 Rhine
 - 5 Hanoverian, Münster
 - 6 Styrian or Carinthian
- .34 French and Flemish breeds
- .342 Central plateau breeds
- 1 Auvergne
 - 2
 - 3 La Marche
 - 4
 - 5 Limousin
 - 6
 - 7 Saintonge
- .344 Loire basin and north France breeds
- 1 Berrichonne (Crevant, Cher, Indre)
 - 2 Solognote (Sologne)
 - 3 Comtoise (Franche-Comté)
 - 4 Ardennes (Poitou)
 - 5 Percheron (Perche)
 - 6 Angevin (Anjou)
 - 7 Cotentin
 - 8 Bretagne
 - 9 Charmoise (Loir et Cher)

AGRICULTURE

- 636.346 Pyreneese breeds
 1 Basquaise
 2 Béarnaise
 3 Landaise
 4 Gasconne
 5 Lauraguaise
 6 Lot
 7 Albigeois
 8 Aveyron
 Varieties: Larzac, Lacaune, Olempe, Cevennes, Causse
- 9 **Barbarins**
 Varieties: Millery, Lahune, Marthold
- .35 Italian
 Neapolitan: long, broad or fat tailed Bergamasker; Paduan; Italian or Sardinian, mountain
- .36 Spanish breeds Merinos, etc.
 .361 Escurial or Estramadura
 .362 Guadaloupe
 .363 Pavlar
 .364 Infantado
 .365 Nigretti
 .366 Other Spanish
 Aguirre, Atwood, Montares, Leonese, Churra
- .367 Other European merino breeds
 2 **British**
 3 **German**
 31 Prussian
 32 Hanoverian
 33 Saxon
 34 Silesian
 37 Hungarian
 4 **French: Rambouillet**
 8 **Danish, Swedish, etc.**
- .368 Other merino breeds
 1 American
 2 Delaine
 3
 4 Australian
- .37 Other European sheep
 .371 Russian
 .372 North Europe: Scandinavia, Iceland, Faroe ilands
 Ovis brachyura borealis
- .373 Southeast Europe
 Long tail, broad or fat tail: Macedonian or Clementine
 Long tail and small tail, mixt wool: Cretan, Macedonian, Wallachian, Moldavian or Hungarian

- 636.38 Other countries
- .385 Asiatic
 Short tail, nornd: Tartar, Kalmuck, Kinghir, Buriat fat rump (ovis steatopyga); stump tail (ovis brachyerca). See also 636.386
 Short tail, hornless: Mecca fat rump, Chinese (ongtischaf), Persian
 Long tail, broad or fat tail, dumba (ovis platyura): Syrian, Anatolian, Karamanian or Levant, Persian, Bokhara
 Arabian or Bedouin
 Kabardian or Circassian
- .386 African sheep
 Long tail, broad or fat tail: Egyptian, Tunisian, Berber or Algerian
 Long and small tail, heavy fleece: Bischarin (Nubian), dinka (sheep with manes, ovis africana), high leg or Guinea sheep (Kongo), Morvan (longipes), Libyan or Fezzan, Zunu or Angola
 Stump tail (ovis brachyerca). See also 636.385
- .39 Goats
 May be divided like 636.081-.089, but for utilization use .391
- .391 Uses
 Subdivide like 636.088 See note above
- .392 British goats
 Irish goat, longhaird
 English goat, shorthaird
- .393 German and Austrian goats
 Hartz mt, Hinterwald, Hungarian, Langensalza, Saxony, Schwarzwald, Starckenburg, Westphalian, Wiesental
- 6 Swiss goats
 Alpine or common goat
 Blackneckt Valais, Schwarzhals or Schwarztal, Glacier, saddle Guggisber g
- 7 Toggenburg
- 8 Appenzell or flat-headed
- 9 Saanen or Sarnen, Gessenay or Gassenay
- .394 French goats: Tarentaise
- .395 Italian goats: Maltese
- .396 Spanish goats
 Hornless, Granada, Malaga
 Shorthaird reds, Spanish-Maltese
- .397 Other European goats
- .398 Other goats
- 1 American goats
- 5 Asiatic goats
 Tibet (China), Angora (Persia), Syrian
- 54 India
 Kashmir (or shawl Tibet), Nepal (variety of Nubian), Surats, Tarh (shaggy brown Himalayan goat)
- 6 African goats
 Abyssinian (or Nubian), Guinea
- 62 Egypt
 Egyptian (or Nile), Theban, Zaraibi

636.4 Swine

May be divided like 636.081-.089, but for utilization use .41

.41 Uses

Subdivide like 635.088. See note above

.42 English breeds

.421 Small black breeds

Use also for small breeds in general

1 Essex

2 Sussex

3 Suffolk

.422 Small white breeds

1 Windsor

2 Small Yorkshire

3 Coleshill

.424 Large white breeds

1 Yorkshire

2 Lancashire

3 Cumberland

4 New Leicester

5 Lincolnshire

6 Suffolk

.426 Medium colored breeds

Use also for medium breeds in general

1 Black Berkshire

2 Red Tamworth

3 Red Berkshire

.427 Medium white breeds

1 Middle Yorkshire

3 " Suffolk

.43 German and Dutch breeds

.431 Lowland breeds Southern Germany

Use this also as general number for short-ear swine

Bavarian	Franconian	Halle	Suabian
Düsseltaler	Glanschwein	Luzern	Wurtemberg

.432 Hungarian short ear

Carpathian, Bergschlag

Bakonyer or Bakouner

Szalontaer

.433 Western and Northern Germany

Use this also as general number for large-ear. Large Polish, Meissner

.434 German marsh swine, large ear

Danish islands	Holland	Mecklenburg	Schleswig-Holstein
Hanover	Jutland	Oldenburg	Westphalia

DECIMAL CLASSIFICATION

- 636.44 French
- .441 Large-ear French Celtic breed
 Northeastern France
 Champagne
- .443 Northwestern France
 Breton
 Norman Auveronne
 Craonnaise
 Mancelle
 Angevin
- .445 Southwestern France Spanish origin
 French Perigord
 Quercy
 Limousin
 Gasconne
 Béarnaise
- .447 Southeastern France
 Provence
 Roussillon
 Languedoc
 Bressane
- .449 Swiss
 Grison Bündener
- .45 Italian, Neapolitan, Maltese, Tuscon, Romagnole
- .46 Spanish and Portuguese
- .47 Other European
- .47 I Curly bristles Southeastern Europe
- .472 **Serbian** **Syrmian**
 Mongolicza or Mangalicza
 Curly-bristle Hungarian
 Milos
 Sumadia or Obrenovics
- .473 **Croatian**
- .474 **Rumanian, Moldavian**
 Anatolian
 Albanian
- .475 **Russian**
- .48 Other countries
- .48 I American breeds
- .482 Poland-China
- .483 Red Jersey or Duroc-Jersey
- .484
- .485 Asiatic: Chinese, Tonkin, Siamese
- .486 Africa
 Cape breeds, Sennaar, Guinea
- .489 Oceania
 Papuan

636.5

Poultry

May be divided like 636.081-.089, but for utilization use .51

.51

Uses

Subdivide like 636.088; e. g. 636.513 Capon. See note above

.52

English breeds

.521

Dorking

.522

Sussex or Surrey

.523

Kent

.524

Orpington

.525

Redcap

.526

Other English

Lincolnshire buffs

.527

Scotch grays

.528

Other Scotch

Scotch bakes or dumpies Jumpers Dumbartonshire

.53

German and Dutch breeds

.531

Hamburg

.532

Lakenfelder

.533

Ramelsloher

.536

Styrian

.537

Bohemian

.538

Other

East Friesian, Westphalian, Thuringian, Alsatian, Nassau, Augsburg, etc.
Magyar

.54

French and Belgian breeds

.541

Crèvecoeur

.542

Houdan

.543

La Flèche Le Mans Caux

.544

La Bresse, Louhans, Bourg, Bourbourg, Barbézieux,

Coussade, Courtes-pattes

.545

Faverolles

.546

Gournay, Pavilly, Caumont

.547

Other

Coucou, French cuckoo, Mantes, Estaires

.548

Belgian breeds

Campenes or Campines, or Brackel; Brabant. Huttegen

Bredes or Guelders or Guelderlands. Coucou de Malines. Bruges

.55

Italian breeds

Use also as general number for Mediterranean breeds

.551

Leghorn

.552

Paduan or Polish (in England)

Also called Pompadour, Padouse, Polanders

.553

Polverara

.554

Ancona

DECIMAL CLASSIFICATION

- 636.56 Spanish breeds
 - .561 Castilian
 - .562 Minorcan
 - .563 Black Spanish
 - .564 Blue Andalusian
 - .565 Prat
 - .57 Other European
 - .571 Pavloff (Russian)
 - .572 Siberian featherfooted
 - .573 Sultans
 - .58 Other countries
 - .581 American breeds
 - 1 Dominican, Dominique, Dominiker
 - 2 Jersey blue
 - 3 Bucks county
 - 4 Java
 - 5 Buckeye
 - 6 Winnebago
 - .582 Plymouth rock
 - .583 Wyandotte
 - .584 Rhode Island red
 - .585 Asiatic breeds
 - 1 Cochin China Shanghai
 - 2 Brahma Brahma, Gray Chittagong
 - 3 Langshan
 - 4 Malay
 - 7 Japanese fowls
 - White Yokohama
 - Phoenix
 - .587 Special varieties
 - 1 Bantams
 - 11 Common
 - 12 Game
 - 13 Polish
 - 14 Asiatic
 - 15 Japanese
 - .588 Other
 - 1 Game
 - 11 Azeel or Aseel
 - 12 English game
 - 13 Sebright (a bantam only)
 - 14 Cornish Indian, or Indian (in England), or Cornish (in America)
 - 15 Malay
 - 2 Deformed
 - Rumpless or tailless or Walkikiki; Turkey necks, naked necks, Gillikins, nude
 - 3 Silkies
 - 4 Frizzles

AGRICULTURE

- 636.59 Other fowls
 .592 Turkey
 1 **Original species**
 11 American, or N. American 'original' or wild turkey (meleagris Americana)
 12 Mexican wild turkey (meleagris Mexicana)
 13 Honduras wild turkey (meleagris ocellata)
 14 Crested turkey
 2 **Bronze**
 English Cambridge turkey
 3 **Narragansett**
 4 **Buff**
 5 **Slate or Austrian whites** (in England)
 6 **White, or White Holland** (in America)
 7 **Black, or Norfolk or black Norfolk** (in England)
 8 **Bourbon red, or Bourbon butternut, or Kentucky red**
 .593 Guinea fowl
 .594 Fezant
 .595 Peacock
 .596 Pigeons
 1 **High class fancy pigeons**
 11 Pouters
 12 English carrier
 13 Runt
 14 Barb
 15 Shortface tumbler
 2 **High class toy pigeons**
 21 Fantail
 22 Owls
 23 Turbits
 24 Frilbacks
 25 Jacobins
 26 Trumpeters
 27 Scandaroons
 28 Florentine amalgamated, Hen
 31 Dragoon, Horseman
 32 Priests
 33 Brunswick
 34 Oriental frils
 35 Homers, white homing, Antwerp
 4
 5 **Other toy pigeons**

- 636.597 **Ducks**
 - 2 **English breeds**
 - 21 Aylesbury
 - 22 Indian runner
 - 23 Blue Swedish
 - 4 **French breeds**
Rouen, colored Rouen, also called Rhone and Roan
 - 8 **Other countries**
 - 81 American
 - 82 Cayuga, black Cayuga
Also called Big black and Lake duck
 - 83 Muscovy
Colored Muscovy, Musk duck, white Muscovy
 - 85 Asiatic: Pekin, white Pekin
By Chinese called Mandarin
- .598 **Goose**
 - 3 **German: Emden, white Emden**
 - 4 **French: Toulouse, gray Toulouse**
 - 7 **Sebastopol**
 - 8 **Other countries**
 - 81 Wild or Canadian Gray wild
 - 85 Chinese: white, brown
 - 86 African
Also called Indian, gray African and Guinea
 - 87 Egyptian Colored Egyptian
 - 89 Spurwing (Australia)
- .6 **Birds**
For poultry see 636.5. Here are classed domesticated birds useful for plumage or work, and pet birds
- .61 **Birds useful for their feathers**
For geese see 636.598
- .611 **Ostriches**
- .62 .
- .68 **Song and ornamental birds**
- .681 **Swan**
- .686 **Cage and aviary birds**
- .7 **Dogs**
May be subdivided like 636.081—.089, but for uses see 636.72—.765
- .71 **Breeds**
- .72 **Utility dogs**
- .73 **Draft and other work dogs**
- .74 **Watch dogs, herd dogs**
- .75 **Hunting and sleuth dogs** **Carrier dogs**
- .76 **Pet dogs**
- .765 **Toy dogs**
- .77 **Dogs in art**
See also 758 Animal painting
- .78 **Dogs in literature**
Essays, stories, biography, etc.
- .79 **Other topics**

- 636.8 **Cats**
 - .81 Breeds
 - .87 Cats in art See also 758 Animal painting
 - .88 Cats in literature
 - Essays, stories, etc.

.9 **Other: rabbits, guinea pigs, etc.**

637 **Dairy and dairy products**

.1 **Milk**

.11 Economics

.113 Dairy farms

- Description of individual farms

.116 Finances and accounts

.117 Expenses

.118 Returns

.1185 Sale price

.12 Production and composition

.121 Choice of dairy cows

.122 Special food

.124 Milking

- Milk pails, milk stools, milking tube

.125 **Artificial milkers**

.127 Composition of milk

1 **Fat**

2 **Lactose, milk sugar, lactic; galactin**

3 **Casein**

6 **Milk testing**

Creamometer	Lactobutyrometer	Lactodensimeter	Lactoscope
Galactometer	Lactocrite	Lactometer	Percent tube

7 **Milk analysis**

.13 Care of milk

.131 Buildings, dairies

.132 Installation, apparatus

1 **Refrigerating apparatus, milk cooler**

2 **Heating apparatus**

3 **Pasteurizers**

7 **Receptacles Storage Milk pans**

.133 Preservation

1 **Chilling**

2 **Heating**

3 **Pasteurizing**

.135 Transportation and sale of milk

Milk cars, milk wagons, bottles, cans

DECIMAL CLASSIFICATION

637.14	Utilization	Consumption			
.141	Whole milk				
.142	Condensd milk				
.143	Milk powder				
.144	" farina				
.145	" sugar				
.146	Fermented milk	Kumis			
.147	Skim milk				
.148	Cream				
.16	Accidents	Alterations	Diseases	Impurities	Adulterations
.17	Milk other than cow's milk				
.171	Mare's milk				
.172	Ass's "				
.173	Ewe's "				
.174	Goat's "				
.18	Substitutes for milk				
.181	Vegetable milks				
.2	Butter				
.21	Economics				
.216	Finances and accounts				
.217	Expenses				
.218	Returns				
.2185	Sale price				
.22	Composition				
.221	Character and properties of butter				
.222	Constituents of butter				
.223	Grades of butter				
.225	Butter testing				
.227	" analysis				
.23	Preparation of butter				
.231	Buildings	Creameries	Butter factories		
.232	Installation, apparatus				
1	Separators				
11	Skimmers				
12					
13					
14	Centrifugal separators				
2	Churns				
3	Washers				
4	Workers				
8	Presses, molds, stamps, etc.				

AGRICULTURE

- 637.233 Butter making
 - 1 Separating cream
 - 2 Churning
 - 3 Washing
 - 4 Working
 - 5 Salting
 - 6 Pasteurization
 - 7 Ripening
- .235 Transportation and packing
 - 1 Methods of packing Receptacles
- .24 Utilization Consumption
 - Including residues
- .247 Buttermilk
- .26 Alterations Diseases Impurities Adulterations
- .27 Renovation
- .28 Substitutes for butter
- .281 Oleomargarin
- .282 Butterin
- .3 Cheese
 - .31 Economics
 - .316 Finances and accounts
 - .317 Expenses
 - .318 Returns
 - 5 Sale prices
 - .32 Character and composition
 - .321 Character and properties
 - .322 Constituents
 - .323 Grades of cheese
 - .325 Cheese testing
 - .327 Cheese analysis
 - .33 Cheese manufacture
 - .331 Cheese factories
 - .332 Installation, apparatus
 - 1 Borlen
 - 2 Curd mils
 - 3 Presses
 - .333 Cheesemaking
 - 1 Curdling Rennet
 - 2 Refining
 - 3 Pressing
 - 4 Heating
 - 8 Putting in molds
 - .335 Transport, packing, etc.
 - 1 Packing
 - 2 Storage

- 637.34 Utilization Consumption
Including by-products
- .345 Milk sugar
 - .347 Whey butter
 - .35 Varieties
 - .351 Rennet cheese from cow's milk
 - .352 Soft cheese, fresh, unriped
 - .353 " " riped
 - 2 English
 - 3 German: Limburger
 - 4 French: Brie, Camembert, Neufchatel
 - 5 Italian: Gorgonzola
 - .354 Hard cheese
 - 2 English: Cheshire, Cheddar, Sage, Stilton
 - 3 German, Swiss, etc.: Emmental, Edam
 - 4 French: Gruyère, Gex
 - 5 Italian: Parmesan
 - 6
 - 7 Other European
 - .355 Rennet cheese from other than cow's milk
 - 1 From sheep's milk: Roquefort, Texel
 - 2 " goat's "
 - 3 " reindeer "
 - 4 " buffalo "
 - .356 Sourmilk cheese from cow's milk
Cottage cheese, Dutch cheese, pot cheese, smear-case
 - .357 Sourmilk cheese from other than cow's milk

638 Bees, silkworms, etc.

Insects whose products are useful for food or manufactures

- .1 Bees, honey, wax
- .2 Silkworms
- .3 Cochineal

639 Hunting, trapping, fish culture, etc.

See also 799 for sporting side

- .1 Hunting, trapping, game preserves, etc.
Fox, skunk, etc. farms
- .2 Fishing as an occupation
- .3 Fish culture Pisciculture
Including turtle, terrapin, frogs
- .4 Oysters and other mollusks Shelfish
Oyster, clam, mussel, snail, pearl-fishing, scallop, quohog, cockle, winkle, periwinkle
- .5 Crustaceans
Lobsters, crabs, crawfish, shrimps, prawns
- .6 Other sea food
Sea urchin, echinus
- .7
- .8 Leeches

640 Domestic economy

Public as well as private household administration covering work of housekeeper, matron, steward, janitor, etc. in hotels, clubs, apartments, boarding houses, schools, restaurants, factories, offices and other commercial buildings, churches, theaters, railway stations, ships and other public gathering places.

For economics of consumption, including standards of living, see 339; for care of library buildings see 025.9. Numbers for allied subjects in army and navy will be provided under military and naval science. See also 331.83 Food, clothes and shelter of laboring classes

SUMMARY

- | | | | | |
|------|-----|--|------------------------------------|-------------|
| | 641 | Food, cookery | | |
| | 642 | Serving entertaining | | |
| | 643 | Shelter, house, home | | |
| | 644 | Heat, light, ventilation | | |
| | 645 | Furniture, furnishings | Decoration | |
| | 646 | Clothing, toilet | | |
| | 647 | Administration, household management | | |
| | 648 | Sanitary precautions, cleaning | | |
| | 649 | Nursery, sickroom | | |
| .1 | | Theories, utility, etc. | .4 | Essays |
| .2 | | Compendis | .5 | Periodicals |
| .3 | | Dictionaries, cyclopedias | .6 | Societies |
| .7 | | Study and teaching | | |
| | | Schools of housekeeping, experiment stations. Investigations of home conditions. For cooking schools see 641.07 | | |
| .71 | | Schools and experiment stations | | |
| | | See 630.7 Agricultural schools, farmers institutes; 630.6 Farmers associations, granges, etc; 371.42 Manual training courses; 371.6764 Laboratory equipment for home economics courses; 375.64 Place in curriculum; educational values. 640.711-.74 may be used for keeping all phases of the subject in 640 | | |
| 711 | | College and university courses and departments | | |
| | | Schools of college grade | | |
| .712 | | Secondary courses; high school | | |
| .713 | | Elementary courses; below high school | | |
| .714 | | Extension work | | |
| | | Courses for special needs: women's clubs, farmers' wives, etc. | | |
| .72 | | Research work: experiment stations, graduate courses | | |
| | | For Sage foundation see 306 | | |
| 73 | | Normal courses, teachers institutes, etc. | | |
| .74 | | Exhibits | Museums | |
| .9 | | History | | |
| 641 | | Food | | |
| | | For physiology of nutrition, see 612.39; for dietetics and dietary standards, 613.2; for food values, 641.1 | | |
| .01 | | Gastronomy | Epicurism | |
| | | Pleasures of eating, esthetics of cookery, epicures (gourmets). For gluttony, see 178.91 and 613.25 | | |
| .02 | | Compendis | | |
| .03 | | Dictionaries, cyclopedias | | |
| .04 | | Essays, addresses, lectures | | |
| .05 | | Periodicals | | |
| .06 | | Societies | | |
| .07 | | Study and teaching | Cooking schools, classes and clubs | |
| .08 | | Polygraphy | | |
| .09 | | History and description | | |
| | | Divided like 930-999. Including foods characteristic of different peoples, but for preparation of specific dishes (i. e. recipes) peculiar to special countries see 641.59. | | |

- 641.1 Food chemically considered Food values Tables**
 For methods of chemical analysis see 543.1; for adulterations see 614.3; for commercial preparation or manufacture see 664; for physiology of nutrition see 612.39; for dietetics see 613.2
 612.39 treats of physiologic effect of different kinds and quantities of foods from purely scientific point of view, without regard to benefit or injury
 613.2 treats of food requirements in special conditions of age or disease and of the beneficial or injurious effects of different kinds of foods
 641.1 translates scientific facts into familiar terms for cook and housekeeper, treats of the required amount of the different constituents and their proportion as found in various foods
- .11 **Organic food constituents**
- .12 **Proteids or nitrogenous foods**
 Meat, eggs, nuts, legumes, etc. See also 612.398
- .13 **Carbohydrates or nonnitrogenous foods**
 Vegetables, cereals, fruits, sugar See also 612.396
- .14 **Fats, oils**
 See also 612.397
- .15 **Inorganic food constituents**
- .16 **Water**
- .17 **Salts, mineral or ash constituents**
- .3 **Animal and vegetable foods**
 Class here also works dealing both with food material and its preparation
 Subdivided like 630 e.g. 641.33, Cereals, 641.34 Fruits
- .31 **Prices Relativ cost**
 Quality and other factors in buying for table
- .4 **Food preservation Markets**
 Subdivide like 664 (not yet completed)
 For commercial methods see Chemic technology 664.8-.9; for transportation see 656 (subdivision not completed)
- .5 **Cookery Cook books**
 General recipes, specific directions, in whatever form (books, cards, etc) for preparing food
 Distinction between 612.39, 613.2 and 641.5: in 641.5 class cook books and collections of recipes in which physiologic and hygienic effects of foods (if treated at all) are secondary; in 613.2 class dietaries and selection and preparation of food for special systemic conditions, with recipes subsidiary or with recipes and diet about evenly balanced; in 612.39 class the scientific study of physiologic effects of various foods, regardless of benefit or injury
 See also 641.59 Recipes peculiar to special countries; 641.6 Cookery of specific substances; 641.7 Cookery by specific processes; 641.8 Composit dishes, ices, confectionery, beverages
- .52 **Brekfast**
- .53 **Luncheon, afternoon tea, supper**
- .54 **Dinner**
- .55 **Economic cookery**
- .56 **Special conditions**
 Under limitations of age, helth, ethical or religious theories, etc.
- .562 **Children**
- .563 **Invalids and aged Hospital cookery**
- .564 **Ethical limitations**
- .565 **Religious limitations**
- .566 **Seasons and days: Lent, fast days, etc.**
- .567 **Cults: Jews, Buddhists, etc.**

- 641.57 Special situations
 Adaptation to large numbers, large variety, and limitations of time, place
 or appliances
- .572 Hotel and restaurant cooking
- .573 Army and navy cooking
 See also 355
- .574 Shipboard cooking
 Exclusiv of navy
- .575 Camp and travel cooking
- .576 Railway dining and buffet cars
- .577 Itinerant companies; circuses, etc.
 Methods of feeding large numbers en route or in temporary shelters
- .578 Camp cooking
- .58 Special utensils or fuels
- .583 Cooking by oil
 Including oil and gas together
- .584 Cooking by gas
- .585 Cooking by alcohol Chafing dish recipes
- .586 Cooking by electricity
- .587 Cooking by apparatus heated by steam or hot water
- .588 Cooking by slowly applied heat
 Aladdin ovens, fireless cookers
- .59 Cookery of special countries
 Class here descriptions of national cookery or recipes for dishes character-
 istic of special countries or regions
- .591 Frigid zone and cold wether
- .592 Tropics and hot wether
 Divide farther like 930-999, using these numbers preferably only for
 reference and shelving books under 641.5-.578
- .6 Cookery; clast by material
 Subdivide like 641.3
- .7 Cookery; clast by process
- .71 Baking, roasting
- .72 Braising
- .73 Boiling, simmering Soups
- .74 Stewing
- .75 Steaming
- .76 Broiling, grilling
- .77 Frying, sautering
- .8 Composit dishes
 Ices, confectionery, beverages, etc. See also 641.53 Luncheon, afternoon tea,
 supper
- .81
- .82 Entrées Made dishes
- .83 Salads
- .84 Sandwiches
- .85 Confectionery, candies, sweets, bonbons
- .86 Ices: ice cream, sherbet, water ices, etc.
- .87 Beverages Soft drinks
 See also 663 Manufacture of beverages; 663.8 Bartenders manuals, mixing
 drinks; 613.3 Hygiene of beverages

642 Serving Table Entertaining

See also 395 Etiquet

- .1 **Home and family meals**
 - Brekfast, lunch, dinner, supper. Menus and servis
 - For tables of chemic constituents and calories see 641.1
- .2 **Refreshments**
 - Afternoon tea, sandwiches, ices, soft drinks
- .3 **Camp, picnic and travel lunches**
 - Lists of supplies; suitable food and dishes; packing and accessories. For recipes see 641.53; for camp cookery see 641.578
- .4 **Entertaining**
 - .41 Private entertainments
 - .42 Small numbers
 - Luncheons, dinners, etc.
 - .43 Large numbers
 - Receptions, balls, garden parties, etc.
 - .45 Public entertainments
 - Banquets, dinners, clambakes, etc. For history of banquets, cating, etc. see 394.1 under Public and social customs. For dining room see 643.4
 - .48 Toasts Table anecdotes and conversation
 - See also table talk in literary miscellany
 - .5 **Table systems for large numbers**
 - .51 Table d'hôte
 - .52 American plan
 - .53 European plan, à la carte
 - .54 Club: choice of combinations
 - .55 Harvard Memorial hall plan
 - Harvard university plan of a fixt charge for essentials, and coupons (alimentary milage) for extras
 - .56 Mixt plan
 - Table d'hôte and à la carte; table d'hôte and club
 - .57 Lunch counters Cafeteria
 - .58 School lunch rooms
 - Management, prices, rules for payment, suitable food, freedom of choice, etc. See also 371.716 School meals
 - .6 **Serving Carving**
 - Directions for setting table, changing courses, etc.
 - .7 **Table furnishings**
 - Linen, china, glass, plate, etc. Preferably clast here, tho possible to be considerd part of 645.66 Dining room furnishings
 - .8 **Table decoration**
 - Selection and effectiv arrangement of flowers, colors, iights, centerpicces, etc.

643 Shelter: house, home

For types of houses and plans see 725, 727 and 728; for materials and construction see 690; for heating and ventilation see 628.8, 644 and 697; for lighting, 628.9 and 644.3; for plumbing and gasfitting see 696; for furnishing see 645

.1 Location, site

Social and religious character of neighborhood; accessibility, railways, tramways, etc; nearness to churches, schools, markets, etc. Property increasing or decreasing in value

For hygiene of soil and grounds (city, village or country) see 614.77; for Sanitation, water supply and drainage see 628

.2 Plan

Requirements of house for convenient and economic administration; relative situation and intercommunication of rooms, amount and direction of light, etc. Special rooms: kitchen, dining room, baths, etc. For detached rooms and buildings see 728.9; for furnishing see 645; for architectural aspect of structural parts of house (foundation, floors, walls, etc.) see 721; for wall finish see 729.31

.3 Kitchen and its equipment**.31 Plan: situation and arrangement**

Relation to rest of house. Housekeeper's requirements as guide to architect. Light. For plans see 728 Residences, and 728.93 Detached kitchens

.32 Ventilation

Carrying off odors, etc.

.33 Stoves, ranges, cookers, hot tables, fuels

See also 641.58 Cooking by special utensils or fuels

.331 Fireplaces, open fires: turnspit, crane, etc.**.332 Coal and wood Stoves and ranges****.333 Oil and oil stoves****.334 Gas and gas stoves**

Including natural gas and acetylene

.335 Alcohol and alcohol stoves Chafing dish**.336 Electricity and electric stoves****.337 Steam heated cooking appliances Steam tables****.338 Slow and fireless cookers**

Aladdin oven, Norwegian haybox. See also 641.588

.34 Machinery and labor-savers**.35 Utensils****.36 Pastry room****.37 Storeroom, larder Refrigerators****.38 Care of kitchen and accessory rooms****.39****.4 Dining room and adjuncts****.45 Serving room Butler's pantry****.47 Other pantries****.48 Cupboards****.5 Other special rooms****.52 Baths, lavatories, toilets****.57 Sun rooms, solariums: sleeping balconies, etc.****.58 Laundry**

Place in house; for equipment see 648. See also 728.93 Detached laundries

.6 Labor-savers

General: bells, telephones, tubes, lifts, chutes, door openers and closers, etc. See also special subjects; e.g. 648.52 Vacuum cleaners

.7 Repair

644 Heat Light Ventilation

.1 Systems of heating

Desiderata, relativ advantages for household

For varieties of apparatus and installation see 697; for sanitary engineering see 628.8

.15 Fireplaces Family hearthstone

Open fire as household institution; mental influence

Sanitary advantages. See also 749 Artistic fireplaces

.19 Portable heaters: bedwarmers, warming pans, footwarmers**.2 Fuels**

Relativ cost; cleanness; labor involved, e.g. hauling and carrying wood or coal and removing ashes. Chimney sweeping

.21 Wood**.22 Coal****.23 Oil, gasoline, etc.****.24 Gas****.26 Electricity****.3 Systems of lighting**

Fixtures, fittings, accessories. Class here general discussion covering fixtures and medium, their relativ advantages, etc. For medium alone see 644.31; for fixtures see 644.32

.31 Lighting medium

See also Chemic technology 665

.311 Candles**.312 Oil****.313 Gas****.314 Acetylene****.315 Electricity**

See also 621.32 Electric lighting

.319 Other**.32 Apparatus and accessories**

Subdivide each, if wisht, like 644.31

.321 Hand lamps Candlesticks**.322 Lanterns****.323 Table, banquet and piano lamps****.324 Standards****.325 Wall lamps Sconces****.326 Chandeliers Ceiling fixtures****.5 Ventilation**

Most material belongs elsewhere: hygienic influence of air and light 613.1; sanitary engineering 628.8; ventilating apparatus 697.9. For advantages of fireplaces see 644.15

645 Furniture, carpets, upholstery Decoration

For plan and furnishing treated together see 643

See also hygiene 613.59; architectural decoration 722; design 745; artistic furniture 749; manufactures of cotton, wool, etc. 677

.1 Floor coverings: carpets, rugs

.2 Wall coverings

.3 Window and door furnishings

Screens, shades, awnings, draperies, wether strips

.4 General furniture

See also 645.6 Furnishings for special rooms

.41 Chairs Footstools

.42 Couches Settees

.43 Tables

.44 Desks

.47 Cushions, pillows, etc.

.48 Linen

Removable furniture covers, centerpieces, etc. See also 642.7 Table furnishings; 645.67 Bedroom furnishings

.49 Other

.5 Ornaments

Clocks, vases, pictures, statuary, etc. See also 739 Bronzes, brasses, bricab ac

.6 Special rooms

For kitchen see 643.3; for laundry see 648

.61 Hall and stairs

Hatracks, umbrella stands, etc.

.62 Drawing room Reception room Parlor

.63 Library

.64 Study or offis

.65 Living room

Class here furnishings of room used as combined reception room, library and living room

.66 Dining room

For table equipment and decoration see 642.7-.8

.67 Bedrooms and nursery

Sleeping balconies, open air bedrooms. Beds and bedding, linen, etc. For nursery see also 649

.68 Bathrooms Lavatories Toilets

Fittings and supplies. See also 646.7 Bathing

.69 Other rooms

Music, billiard and ball rooms, picture gallery, servants rooms, cellar, attic

.8 Outdoor space

Verandas, balconies, roof gardens

For sleeping balconies see 645.67. See also 712 Private grounds; 717 Arbors, seats, outlooks

646 Clothing Toilet

See also ethics of dress, display 177.4; ecclesiastic costume 247.7; clothing a related to economics of laboring classes 331.83; bleaching and dyeing 667.1-.3; academic costume 378.29; history of costume 391; clothesmaking 687; hygiene of clothing 613.48; adulteration of textiles 614.37; for uniforms and liveries see occupations to which they pertain

- .01 Psychology and economics of fashions
 - Reasons for change of fashions; expense of fashionable dressing
- .02 Compends
- .03 *Dictionaries, cyclopedias
- .04 Essays, lectures, addresses
- .05 Periodicals
- .06 Societies Dress reform societies
- .07 Study and teaching
- .08 Polygrafy
- .09 Adaptation to climate or season
- .091 Clothing for cold wether and frigid zones
- .092 " " hot " " tropics
- .1 Materials Textils and fibers
 - With reference to domestic use, or domestic use and hygiene combined. For hygiene of materials see 613.481; for general works on textiles and fibers see 677 Manufacture of textiles
 - .11 Cotton
 - .12 Linen Flax Hemp
 - .13 Wool Mohair, alpaca, camel's hair, rabbit's hair, etc.
 - .14 Silk
 - .15 Lether
 - .16 Fur
 - .17 Other animal materials: fethers, hair, whalebone
 - .18 Other vegetable materials
 - .181 Rubber
 - .182 Paper
 - .183 Celluloid
 - .184
 - .185 Straw Raffia
 - .186 Other fibers: jute
 - .19 Other materials Tinsel, aluminum, asbestos, etc.
- .2 Sewing Knitting Crochet
 - For fancywork see 746
 - .21 Plain sewing
 - Running, backstitching, hemming, overhanding, etc.
 - .24 Mending Darning
 - .26 Knitting and crochet Tatting
 - For machineknit goods see 677
 - .27 Crochet
- .3 Clothing divided by wearers
 - Class here trade catalogs; e.g. Liliputian bazar catalog 646.36
 - See also 391 Costume; 687 Clothesmaking as a trade
 - .32 Clothing for men
 - .34 " " women
 - .36 " " children

646.4 Clothing divided by purpose

Including directions to amateurs for cutting and making, economic use of material, suitability of material for purpose, adaptation of style to material and purpose, choice of color, etc. For limitation to special kinds of garments see subdivisions below; e.g. patterns or catalogs of underwear 646.42

Subdivisions .42-.48 may be farther divided by 2 Men, 4 Women, 6 Children

.42 Underwear

.43 Outer house garments

Gowns or dresses, coats, trousers, etc.

.45 Outdoor garments

Cloaks, coats, overcoats, shawls, sweaters, etc. See also 646.5 Hedgear, millinery; 646.48 Accessories: gloves, mufflers, etc.

.46 Outer footwear

For hose see 646.42

.47 Garments for special purposes

Negligée, lounging or smoking, yachting, bathing, hunting, riding, etc.

.48 Accessories

Neckties, collars, cuffs, belts, aprons, caps, handkerchiefs, gloves, mufflers, garnitures, etc.

For outdoor hedgear see 646.5

.5 Millinery Outdoor hedgear

See 687 Millinery as a business

.52 Hats, caps, etc. for men

.54 Hats and bonnets for women

.55 Other outdoor hedgear for women

Hoods, scarfs, etc.

.56 Hedgear for children

.57 For boys

.58 " girls

.6 Cleaning Drycleaning

For laundry see 648.1

.7 Toilet Cosmetics Bathing

Care of hair, nails, teeth, etc.

For historic customs see 391.5-.6. See also hygiene, 613.4 care of body

647 Household organization and administration

.1 Household accounts; finances, cost

See also bookkeeping 657

.2 Personnel

Intelligence office, employment bureau

Class here regular employees or assistants; for occasional employees see 647.29.

For ethical considerations, see 173.8. See also political economy, 331 Labor and wages

.21 Manager

Superintendent, housekeeper, steward. See also 640.8

.22 Male employees

.23 Female "

.24 Foren "

Races and nationalities: orientals, negroes, etc.

DECIMAL CLASSIFICATION

- 647.25 Indoor servis
 - Cook, butler, waitress, parlor maid, lady's maid, chambermaid, nurse, laundress, furnaceman, etc. For housekeeper, steward, etc. see 647.21; for outdoor servis see 647.3
- .29 Other employees
 - Emergency help, household registers
- .3 Servis outside the house
 - Coachman, gardener, laborers
- .6 Wages Hours Duties
- .9 Cooperativ and collectiv housekeeping
 - Hotels, clubs, apartments, commercial bildings, churches and other public and semipublic establishments or rooms
 - See also 692.9 Bilding laws; 728 Residence architecture
- .91 Tenements
 - See also 728.1 Tenement house architecture; 331.83 Housing of laboring classes, including tenement house laws; 613.53 Hygiene of tenements
- .92 Apartments, flats
 - See also 728.2 Apartment house architecture
- .93 Cooperativ housekeeping
 - See also 334.4 for economic aspect
- .94 Hotels Clubs
 - See also 728.4 Clubhouse architecture; 728.5 Hotel architecture
- .95 Restaurants, tea rooms, etc.
 - See also 642.5 Table systems for large numbers
- .96 Public bildings Institutions
 - General administration and care affecting helth and convenience of occupants and public; janitor's duties. May be subdivided if wisht like 725; e.g. 647.962 Administration of offis bildings, or 647.9623 if so close classification is preferd
 - See also 362 Hospitals, asylums, etc; 365 Prisons
- .97 Cottage systems
- 648 Sanitary precautions: laundry, cleaning
 - .1 Laundry Washing
 - Private, cooperativ, public. For other processes of clothes cleaning see 646.6 Dry cleaning. For sanitary precautions see 648.5-.6; for pests see 648.7
 - .11 Administration Accounts
 - .12 Marking
 - .14 Equipment
 - Collectiv: specifications and cost. Class specific appliances with processes to which they belong
 - .15 Hand equipment
 - .16 Power "
 - .18 Supplies
 - Soap, starch, bluing, powders, reagents
 - .2 Washing
 - Requirements of temperature, ingredients, etc. for different materials Washing directions
 - .22 Washing by hand
 - .23 " machine
 - .25 Starching
 - .27 Bluing Tinting

DOMESTIC ECONOMY

- 648.3 **Drying Driers Extractors Wringers**
 - Confined or open air Temperature Effect on dyes of freezing, etc.
- .4 **Ironing**
- .42 **By hand Sad irons**
 - Electric and gas heated irons, etc.
- .43 **By machine Collar and shirt machines, fluting irons, etc.**
- .45 **Power machinery Mangle**
- .5 **Cleaning and sanitation of house or bilding**
 - See for sanitary engineering 628; for plumbing 696; for dry cleaning 646.6; for chimney sweeping 644.2
- .52 **Sweeping and dusting**
 - Floors, walls, moldings, furniture; implements, vacuum cleaners, etc.
- .54 **Washing**
 - Porcelain, glass, windows, mirrors, paint, including table ware, bricabrac and fixtures. For washing textiles see 648.2
- .55 **Polishing**
 - Silver, knobs, scutcheons, pipes and other metals
- 6 **Disinfecting**
 - Waste pipes, traps, etc. Household disinfectants. See also 649.8 Care of sickroom; and public helth, 614.48 Disinfecting apparatus
- 7 **Pests; traps, poisons, insectifuges**
- 649 **Nursery Sickroom**
 - This provides for persons requiring special adjustment of household administration: children and invalids
- .1 **Care of children**
 - See also 136.7 Child study; 173.5 Duties of parents
- .2 **Rooms Nursery**
- .3 **Food**
 - See also 613.22 Diet of infants; 641.5 Cookery for children
- .4 **Clothing and care of body**
 - See also 646.36 Childrens clothing, outfit and making; 646.4 Clothing for various purposes; 613.4 Hygiene of bathing and clothing
- .5 **Exercise Recreation**
 - See also 613.7 Hygiene of recreation; 790 Amusements
- .55 **Amusements: toys, dolls, games**
- .6 **Manners Habits**
 - See also 173.6 Duties of children
- .7
- .8 **Care of invalids and the infirm Sickroom**

- 650 Communication Commerce**
- 651 Offis equipment and methods
See tentativ table in separate herewith
- 652 Writing; material, typewriters, cipher
- 653 Abbreviations Shorthand
- .01 Theories Available material Shading Position Detacht vowels
- .02 Practicability for general use Teaching in public schools
For methods see 653.07
- .03 Speed See also 653.046, Verbatim reporting
- .04 Applications
- .041 Personal notes and records
- .042 Correspondence
- .043 Amanuensis work
- .044 Newspaper work
- .045 Shorthand job offises
- .046 Official-reporting, court and legislativ
- .047
- .05 Periodicals If strictly limited to one system, class with that system
- .06 Societies " " " "
- .07 Education Shorthand schools Teaching, privately or in classes
- .08
- .09 History Divided by countries like 930-999
- .1 Abbreviations Omissions of silent letters, vowels, etc.
Covers desirability, dangers, lists, and all general matter about use of recognized abbreviations. See also 421.4 Phonetic spelling; 421.8 Abbreviations
- .2 Abbreviation systems
Brief longhand. Fonoscribing, etc. For telegraphic codes, see 652
Covers only systems of quick writing with common characters.
- .3 Stenografies
Includes both discussions and systems with arbitrary signs and new characters
- .31 Before 1837
- .32 Gurney
- .33 Gabelsberger
- .34 Stolze (Dettmann)
- .35 Taylor (Baker; Harding; Odell)
- .36 Cross
- .37 Scovil
- .38 Duployé (Pernin, Sloan)
- .4 Phonetic shorthand Phonografies
Limited to phonetic stenografy, i. e. brief sound writing. .5 and .6 include only systems using Izaac Pitman's consonants
- .41 Before Pitman (1837)
- .42 Bell
- .43 Jones
- .44 Williams
- .45

USEFUL ARTS

653.5 Pitman old vowel scale systems

- .51 Benn Pitman
- .52 Graham
- .53 Scott-Brown
- .54 Marsh
- .55 Thornton
- .56 Haven
- .57 Allen
- .58

.6 Pitman new vowel scale systems

- .61 Izaac Pitman
- .62 Munson
- .63 Longley
- .64 Burnz
- .65

.7 Connected vowel systems

- .71 Lindsley's takigrafy
- .72 Everett
- .73 Barrows
- .74 Bishop
- .8

.9 Foren systems Divided by languages like 400

The heds above are for English systems or (as in 653.3) foren systems adapted to and used for English. Other systems are groupd here by languages, but history of shorthand in special countries is in 653.99

654 Telegraf Cables Signals

For codes see 652

- .1 Telegrafic instruments
- .2 Duplex, quadruplex, multiplex telegrafs, etc.
- .3 Printing, perforating, dial telegrafs, etc.
- .4 Telegrafic construction; poles, wires, condits, etc.
- .5 Cables Submarine
- .6 Telefones
- .7 Alarms; burglar, fire Annunciators, bells
- .8 Speaking tubes Pneumatic tubes
- .9 Signals See also 534.83 Navigation signals; 623.7 Military signals

*use 384 for
Electricity*

655 Printing Publishing Copyright

- .1 **History of printing**
- .11 Origin, invention
- .111 Claims of Gutenberg, Mainz
- .112 Claims of Coster, Haarlem
- .12 Celebrations, anniversaries
- .121 1640
- .122 1740
- .123 1823
- .124 1840
- .13-.19 Printing in special countries Divided like 930-999
- .2 **Type and typesetting**
- .21 Type founding Tools of the art
- .22 Electrotyping and stereotyping, etc. Patent blocks
For Photoelectrotyping, see 777
- .23 Patent types, logotypes, etc.
- .24 Faces, sizes, styles Specimen books
- .25 Typesetting: composition, proofreading
Artistic composition: taste, display, job work
- .26
- .27 Imposition Locking up, etc.
- .28 Typesetting and distributing machines Linotype,
monotype
- .3 **Practical printing** For Calico printing see 667.3
- .31 Printing presses
- .32 Press work: making ready Color printing Cuts
- .33 Drying: hydraulic pressing, etc.
- .34
- .35 Stamps, stencils, etc.
- .36 Machines: paging, numbering, addressing, etc.
See also 654.3 Printing telegraphs; 652 Typewriters
- .37 Nature printing from plants, etc.
- .38 Printing for blind see also 371.91 Education of blind
- .4 **History of publishing and bookselling**
Divided by countries like 930-999
- .5 **Publishing and bookselling**
- .51 Selection of mss
For freedom of press vs censorship, see 323; Morals of press 179.1
- .52 Relations to authors
Copyright payments, prices of mss bought
- .53 Format
Size, paper, type, illustrations, binding
- .54 Cost of manufacture
Retail prices and discounts to dealers
- .55 Advertising, press copies and notices See 659.1 Adve. t'ing
- .56 Retail bookselling Prices and discounts to buyers
- .57 Subscription book publishing, canvassing
- .58 Publishing societies
- .59 Publishing by governments, institutions, etc.

USEFUL ARTS

- 655.6 Copyright Literary property
 .61 Perpetual or common law right
 Including ethics of copyright
 .62 Copyright in other matter than books
 Music, mss, lectures, trademarks
 .63 International copyright
 See also 341.5 International private law
 .64-.69 Copyright in special countries
 Divided like 940-999

- 656 Transportation: railroading, etc. *in general*
 Running of trains, train and boat timetables, luggage and freight handling, lists of sailings: crews and shifts, discipline, etc.
 For mechanical interrelations of track and rolling stock see 625.2
 For reports, government regulation, rates schedules, etc. see 385 for railroads, 386 for canal and 387 for river and ocean transportation

- 657 Bookkeeping Accounts

- 658 Business manuals Methods Tables
 See tentative table in separate herewith

- 659 Other topics

*Salesmanship
 Business letters*

- .1 Advertising

660 Chemic technology

- .1 Periodicals .2 Compendis .3 Dictionaries, cyclopedias .4 Essays
 .5 Societies .6 Study and teaching .7 .8 .9 History
 of chemic technology

661 Chemicals

- .1 Chemic elements Divided like 545
 .2 Acids: sulfuric, nitric, etc.
 .3 Alkalies: potash, soda, ammonia
 .4 Salts For common salt see 664.4
 .5 Ammonia salts
 .6 Sulfates and nitrates
 .7 Cyanids

662 Pyrotechnics Explosivs, matches, etc.

- .1 Pyrotechnics
 .2 Explosivs See 622.23 Blasting; 623.4 Ordnance
 .3 Gunpowder
 .4 Fuses, percussion caps
 .5 Matches
 .6 Fuel: coal, peat, natural gas, etc.
 .7 Charcoal, coke See also 644.2 Domestic economy 669.8 Metallurgy
 .8 Artificial fuel See also 644.2 Domestic economy 669.8 Metallurgy

- 663 Beverages See also 178 Temperance 614.35 Adulterations
- .1 Fermented
 - .2 Wine
 - .3 Brewd
 - .4 Beer
 - .5 Distild
 - .6 Artificial mineral waters: soda water
 - .7
 - .8 Mixing drinks Barkeepers manuals
 - .9 Chocolate, coco Commercial mixing of teas, coffees, etc.
- 664 Foods For Adulterations see 614.31 Public helth. See also 641 Domestic economy
- .1 Sugar, molasses, glucose, etc.
 - .2 Starch, tapioca, sago, etc.
 - .3 Artificial butter, oleomargarin Lard, compound lard
For butter, milk, and cheese see 637 Dairy
 - .4 Salt
 - .5 Spices Condiments
 - .6 Yeast Baking powder
For bred see 641.631 Cookery
 - .7
 - .8 Methods of preservation: fruits and vegetables
 - .9 Preservation of meat and fish
- 665 Oils Gases Candles Lamps
- .1 Candles Torches
 - .2 Animal oils and fats See also 664.3 Foods
 - .3 Vegetable oils and fats
 - .4 Mineral oils: paraffin, ozocerite, asphaltum
Petroleum, kerosene
 - .5
 - .6 Lamps See also 644.32 Domestic economy
 - .7 Illuminating gases Calcium light
 - .8 Other gases
 - .9
- 666 Ceramics Glass, etc.
- .1 Glass See also 748 Staind glass
 - .2 Enamel
 - .3 Ceramics See also 738 Pottery, porcelain
 - .4 Clay See also 553.61 Economic geology
 - .5 Porcelain
 - .6 Stoneware, earthenware, pottery
 - .7 Bricks Tiles See also 691.4 Bilding material.; 695.3 Roofing
 - .8 Artificial stone See also 691.3 Bilding materials
 - .9 Cements Limes Mortars See also 691.5 Bilding materials

667 Bleaching, dyeing, etc.

- .1 Bleaching
- .2 Dyeing Artificial colors Silk and wool
- .3 Cotton dyeing and calico printing
- .4 Inks: writing inks, indelible inks
- .5 Printing inks
- .6 Paints and pigments See also 698.1 House painting; 751 Fine arts
- .7 Varnishes Polish Lacker See also 698.3 Varnishing
- .8 Japan Blacking

668 Other organic chemic industries

- .1 Soap
- .2 Glycerin
- .3 Glue
- .4 Gums and resins
- .5 Essences, perfumery, essential oils and ethers, etc.
See also 646.7 Toilet
- .6 Fertilizers See also 631.8 Agriculture
- .7 Distillation: coal tar, etc.

669 Metallurgy and assaying

History of metals goes here, not in 553, 622, nor 671

- .1 Iron and steel
- .2 Gold and silver
- .3 Copper
- .4 Led
- .5 Zinc
- .6 Tin
- .7 Mercury and other metals
- .8 Fuels and furnaces Slags
- .9 Assaying

670 Manufactures

Specific topics go where of most interest. These heads are for the *general* subject of metal, wood, etc. manufactures, and for such specific manufactures as are not of more interest elsewhere. But an account of a specific manufacture is commonly most useful with its own subject; e. g., a steam engine is certainly made of metal, but its manufacture should go under 621.1, not 672. The character of the library often decides the place of greatest interest. An agricultural library would prefer the manufacture and everything about wood churns with the dairy, 637, while a manufacturing library might prefer it with other wood manufactures in 674. A general library will incline to the special subject, as a more minute classification is thus obtained, and references under 670 answer inquiries for all the library has on the subject of brass or rubber or paper manufactures. Whether group by use or material, if sought from the other standpoint, the references show the resources promptly. As a rule the use is the better classification, being more minute and oftener wanted. But if the uses are various the general head is better; e. g. bells are for scores of distinct uses, but their manufacture is a unit; but all churns are for the dairy

- 671 Articles made of metals
 672 Of iron and steel; stoves, cutlery, etc.
 673 Of brass and bronze; bells, etc. See also 739
 674 Lumber and articles made of wood
 675 Lether " " " " lether
 676 Paper " " " " paper
 677 Cotton, wool, silk, linen, etc.
 678 Rubber and articles made of rubber
 679 Celluloid and other
- 680 Mechanic trades Amateur manuals**
- 681 Watch and instrument making
 Catalogs of miscellaneous instruments. Class special instruments with their subjects
- 682 Blacksmithing
 See also Zootechny, 636.0834 Shoeing
- .1 **Horseshoeing**
- 683 Lock and gun making
- 684 Carriage and cabinet making
 Furniture. See also 749 Artistic furniture; 694.7 Fine joinery, interior finish.
 Highway vehicles for separate tractors, either animal or motor. For motor vehicles see 629.2
- 685 Saddlery and shoemaking Trunks
- 686 Bookbinding
- 687 Clothesmaking Hats
- 688
- 689 Other trades *Butchering trade*
- 690 Bilding** For Architectural construction, see 721
- .1 Theories of construction .2 Compendis, manuals .3 Dictionaries, cyclopedias
 .4 Essays, lectures .5 Periodicals .6 Societies, exhibitions
 .7 Education, study, training, apprentisship, tools and their use (for use of special tools see special trade) .8 Collections, patents, inventions
 .9 History of bilding construction
- 691 **Material Processes Preservativs**
 Waterproofing See also 620.1 Strength of materials
- .1 Wood Creosoting, etc.
 .2 Natural stone Paraffining, etc.
 .3 Artificial stone Concrete
 .4 Bricks Tiles Other ceramic products
 .5 Lime Cement Plaster
 .6 Glass
 .7 Iron Steel Antirust processes
 .8 Other metals
 .9 Other materials

- 692 Plans Specifications, etc.
- .1 General drawings
 - .2 Detail drawings
 - .3 Specifications
 - .4 Contracts Agreements Bids Advertisements
 - .5 Estimates Quantities Costs
 - .6 Superintendence
 - .7 Supervision of accounts
 - .8 Professional services Fees Commissions

680 - Manual arts

- 680 Manual arts
- 681 Primary handwork
- 682 Paper and cardboard
- 683 Weaving and basketry
- 684 Pottery and clay
- 685 Mechanic drawing
- 686 Woodwork
 - .1 Cabinet work
 - .2 Carving
- 687 Metal work
- 688 Book binding
- 689 Other manual arts
 - .1 Leather
- .3 Strengthened beams
- .4 Posts Columns See also 721.31
- .5 Panel and lattice construction
- .6 Joinery, general For Finishing, varnish, polish, etc. see 698
- .7 Ornamental joinery Cabinet work
For cabinetmaking see 684
- .8 Stairbuilding See also 515.83 Stereotomy
- .9 Other branches See also 721.87-.89

- 671 Articles made of metals
 - 672 Of iron and steel; stoves, cutlery, etc.
 - 673 Of brass and bronze; bells, etc. See also 739
- 674 Lumber and articles made of wood
- 675 Lether " " " " lether
 " " " " paper

- 691 iv.1000
 - Waterproofing See also
 - .1 Wood Creosoting, etc.
 - .2 Natural stone Paraffining, etc.
 - .3 Artificial stone Concrete
 - .4 Bricks Tiles Other ceramic products
 - .5 Lime Cement Plaster
 - .6 Glass
 - .7 Iron Steel Antirust processes
 - .8 Other metals
 - .9 Other materials

692 Plans Specifications, etc.

- .1 General drawings
- .2 Detail drawings
- .3 Specifications
- .4 Contracts Agreements Bids Advertisements
- .5 Estimates Quantities Costs
- .6 Superintendence
- .7 Supervision of accounts
- .8 Professional services Fees Commissions
- .9 Bidding laws Liabilities of architects, owners, and contractors

693 Masonry Plastering Fireproofing

- .1 Stone construction
 - .11 Bonds of stone work
 - .12 Cutting and dressing of stone
 - See 515.8 Stereotomy; 736 Stone carving
- .2 Brick construction
 - .21 Bonds of brick work
 - .22 Adobe or sundried brick, etc.
- .3 Terra cotta construction Tile
- .4 Hollow tile and porous terra cotta construction
- .5 Concrete and beton construction
- .6 Plastering
 - .61 External plastering and stucco
 - .62 Internal plastering
 - .63 Ornamental plaster work
 - .64 Scagliola
 - .65 Wooden lath
 - .66 Metal lath (Wire, etc.)
 - .67 Mineral wool linings, etc.
- .7
- .8 Fireproofing
- .9

694 Carpentry: joinery, stairbilding

- .1 Wood construction; general
- .2 Joints of woodwork Framing
- .3 Strengthend beams
- .4 Posts Columns See also 721.31
- .5 Panel and lattist construction
- .6 Joinery, general For Finishing, varnish, polish, etc. see 698 3
- .7 Ornamental joinery Cabinet work
 - For cabinetmaking see 684
- .8 Stairbilding See also 515.83 Stereotomy
- .9 Other branches See also 721.87-.89

- 695 Roofing: slating, tiling For roof construction see 721.4
- .1 Wood: shingle
 - .2 Slate
 - .3 Tile
 - .4 Metal: tin, copper, led, zinc
 - .5 Iron
 - .6 Asfalt Tar Concrete (Melted)
 - .7 Felt Asbestos Paper (In rolls)
 - .8 Textil: duck, canvas
 - .9 Thatch and other coverings
- 696 Plumbing Gas and steam fitting, etc.
- .1 Plumbing For principles of sanitation see 628
 - .2 Gasfitting
 - .3 Steamfitting
 - .4 Rivets and riveted joints
 - .5 Screws and screw joints
 - .6 Rust or calkt joints
 - .7 Anchors Band irons
 - .8 Other branches
 - .9 Plumbing laws See also 614 Public helth
- 697 Heating and ventilation See also sanitary engineering, 628.8; domestic economy, 644. For lighting see 628.9
- .1 Fireplaces
 - .2 Stoves
 - .3 Furnaces
 - .4 Hot water, high and low pressure
 - .5 Steam, high and low pressure
For boilers, see 621.184; for power plants, see 621.19
 - .6 Gas: coal gas, water gas, natural gas
 - .7 Electric and other methods
 - .8 Smoke flues and chimneys
 - .9 Ventilation: air ducts, condits, fans
- 698 Painting Glazing Paperhanging
- .1 Painting Oil
 - .2 Distemper and fresco
 - .3 Varnishing Polishing
 - .4 Other modes of protection
 - .5 Glazing For Staind glass see 748
 - .6 Paperhanging
 - .7 Textil hangings: tapestry
For tapestry design, see 745
 - .8 Relief work: lincrusta, stampt lether, etc.
 - .9 Other branches
- 699 Carbuilding Railway and tramway cars, passenger and freight, with or without mo'ors. For highway cars see 629.2

Fine Arts

700 Fine arts

- 701 Philosophy: theories, utility, esthetics
- 702 Compends, outlines
- 703 Dictionaries, cyclopedias
- 704 Essays, lectures, addresses
- 705 Periodicals, magazines, reviews
- 706 Societies: transactions, reports, etc.
- 707 Education: study and teaching of art
- 708 Art galleries and museums
 - .1 American: Corcoran, Metropolitan, Boston
 - .2 English: National, Hampton Court, Windsor
 - .3 German: Dresden, Munich, Berlin, Vienna
 - .4 French: Louvre, Luxembourg
 - .5 Italian: Vatican, Sistine, Pitti, Medici, Borbonico
 - .6 Spanish: Madrid, Seville
 - .7 Russian: St Petersburg, Hermitage
 - .8 Scandinavian: Copenhagen
 - .9 Other countries

709 History of art in general Divided like 930-999 *Country div.*

710 Landscape gardening

Town and city planning For special cities see 914-919

- 711 Public parks
- 712 Private grounds, lawns
- 713 Walks Drives
- 714 Water: fountains, lakes
- 715 Trees Hedges Shrubs
 - See also 634.9 Forestry; 582 Botany
- 716 Plants Flowers
 - .1 Plants .2 Flowers .3 Conservatories .4 Window gardens .5 Ferneries
- 717 Arbors Seats Outlooks
- 718 Monuments Mausoleums
- 719 Cemeteries See also 393.1 Earth burial; 614.61 Public health

720 Architecture

.1 Theories, esthetics, architectonics .2 Compendis, manuals .3 Dictionaries, cyclopedias .4 Essays, lectures .5 Periodicals .6 Societies .7 Education, study, training, schools of architecture .8 Polygraphy, collections .9 General history of architecture, divided geographically like 940-999

721 Architectural construction

- .I **Foundations** See also bridge engineering, 624. I Foundations
- .II Foundation bed Nature of soil Load on foundation
 - Trial borings. Rock, sand, gravel, peat, quicksand
- .I2 Excavation: timbering, shoring
- .I3 Material for building foundations
 - Divided like 620. I
- .I32 Wood
- .I33 Stone, cement, concrete
 - 2 Stone, dimension or rubble
 - 5 Cement
 - 6 Concrete
- .I34 Brick
- .I4 Pile foundations: general Material
- .I41 Sand piles
- .I42 Wood or timber piles
- .I43 Concrete piles
- .I47 Iron piles
- .I5 Pile foundations: method of sinking
- .I51 Piledriver
- .I52 Screw pile Boring anchor
- .I53 Disk pile
- .I54 Hydraulic pile
- .I55 Pneumatic pile
- .I6 Platform and other special foundations
- .I62 Timber platforms or gratings: plank foundations
- .I63 Concrete platforms
- .I64 Iron and concrete: reinforced concrete platforms
- .I65 Masonry platforms
- .I66 Concrete legs or stilts
- .I67 Cantilever foundations
- .I7 Subaqueous foundations
- .I71 Cofferdams
- .I72 Open crib or caisson Cylinder foundations
- .I73 Pneumatic caisson
- .I74 Freezing
- .I75 Pneumatic forcing
- .I76 Sunken wells: dredging thru wells
- .I77 Sunken tubes

721.2

Walls

- .21 Wood and halftimberd
- .22 Stone
- .23 Artificial stone, concrete, pisé, etc.
- .24 Brick
- .25 Bases Water tables Belt courses
- .26 Arcades Colonnades
- .27 Cornises
- .28 Gables and pediments See also 721.58 Gable roofs
- .29 Other walls

.3 Piers Columns

- .31 Wood See also Carpentry 694.4
- .32 Stone
- .33 Concrete, artificial stone
- .34 Brick, terra cotta
- .35 Iron, steel
- .36 Fireproof Protected

.4 Archt constructions

See 624.6 Archt bridges; and 729.33 and 729.37 Elementary forms

- .41 Arches, circular
- .42 Arches, other forms
- .43 Vaults, cylindric
- .44 Vaults, groind
- .45 Vaults, other forms
- .46 Domes, circular
- .47 Domes, other forms

.5 Roofs See also 695 Roof coverings; 624.9 Engineering, roofs; 729.35 Roof design

- .51 Wood
- .52 Masonry
- .53 Glass
- .54 Metallic
- .55 Windows Openings in roofs
- .56 Roof decoration: cresting, repoussé work, colord tiles, etc.
See also 695.3
- .57 Spires and domes
- .58 Gables See also 721.28 Gable walls
- .59 Other forms of roofs

.6 Floors and flooring

- .61 Wood Construction and coverings
- .62 Stone " "
- .63 Brick and hollow tile " "
- .64 Metallic Compound " "
- .65 Composit " "
- .66 Parquetry Coverings only
- .67 Mosaics " "
- .68 Tiles See 695.3 Roofing tile
- .69 Other coverings

721.7

Ceilings

For vaulted ceilings, see 721.4 and 729.34

- .71 Wood
- .72 Stone
- .73 Brick or tiles with iron
- .74 Metallic
- .75 Concrete Plaster
- .76
- .77
- .78
- .79

.8 Doors Gates Grilles Windows

- .81 Doors, wooden
- .82 Doors, metallic
- .83 Doors, sash, lattis, screen, etc.
- .84 Windows, external
- .85 Windows, internal
- .86 Inclosures of doors and windows
 - Architraves Pilasters Jams Pediments Lintels, etc.
- .87 Shutters Blinds Screens Grilles
- .88 Fastenings Locks
- .89 Other details

.9 Iron and composit structures

For strength of materials, see Engineering, 620.11

- .91 Cast iron
- .92 Wrought iron
- .93 Steel
- .94 Composit
 - .95 Iron and wood
 - .96 Iron and stone
 - .97 Iron and brick, tile, terra cotta Reinforced concrete
 - .98 Iron and glass
 - .99 Wood and glass

722 Ancient and Oriental architecture (Pagan)

See also 571.8 Prehistoric dwellings

- .1 Chinese Japanese
- .2 Egyptian
- .3 Phenician Tyrian Jewish Carthaginian Cypriot
- .4 Indian (Asiatic)
 - Hindu, Buddhist, Jaina, Himalayan, Dravidian, Chalukyan, Indo-Aryan, Burmese, Siamese, Cambodian
- .5 Chaldean Assyrian Babylonian Ancient Persian
Sassanian
- .6 Pelasgian Etruscan
- .7 Roman See 729.32 for Roman orders
- .8 Grecian See 729.32 for Greek orders
- .9 Other: Aztec, Peruvian, Maya, Yucatan, etc.

723 Medieval Christian Mohammedan

- .1 Early Christian
- .2 Byzantine Armenian Russian
- .3 Mohammedan: Saracenic, Moorish, Persian, Turkish,
Indian For Ancient Indian see 722.4
- .4 Romanesque
 - .41 Scotch Irish
 - .42 English Saxon Norman
 - .43 German Austrian
 - .44 French Provençal Norman Angevin
 - .45 Italian Sicilian Norman
 - .46 Spanish Portuguese
 - .47
 - .48 Danish Swedish Norwegian
 - .49 Minor countries
- .5 Gothic or pointed Divided like 723.4

724 Modern

All the subsections of 724 are subdivided geographically like 940-999

- .1 Renaissance
 - .19 Baroque Rococo
- .2 Grecian revival
- .3 Gothic revival
- .4 Victorian Gothic Tudor Elizabethan
- .5 Queen Anne
- .59 Georgian
- .6 Néo-Grec
- .7 Swiss Timber
- .8 Romanesque revival
- .9 Other styles

725 Public bildings

- .1 Administrativ Governmental
 - .11 Capitols Houses of parliament
 - .12 Ministries of war, state, etc.
 - .13 City and town halls Bureaus Public offices
 - .14 Custom houses Bonded warehouses Excise offices
 - .15 Court houses Record offices
 - .16 Post offices, general and special
 - .17 Official residences Palaces of rulers
 - .18 Barracks Armories Police stations
 - See also 623.61 Military bildings
 - .19 Engin houses Fire alarm stations

- 725.2 Business and commercial**
- .21 Stores, wholesale and retail
 - .22 Mixt store, offis, and apartment bildings
 - .23 Offis bildings: telegraf, insurance
 - .24 Banks: safe deposit, savings
 - .25 Exchanges Boards of trade
 - .26 Markets
 - .27 Cattle markets Stock yards
 - .28 Abattoirs
 - .29 Other business bildings
 - .3 Transportation and storage**
 - .31 Railway passenger stations
 - .311 Small (country) stations
 - .312 Large (city) “
 - .313 Union stations
 - .314 Stations on 2 levels
 - .315
 - .316
 - .317 Street-car stations
 - .318 Elevated railway stations
 - .319 Underground railway stations
 - .32 Railway freight houses
 - .33 Railway shops, roundhouses, car houses, tanks, stores
 - .34 Dock bildings Wharf boats and houses
 - .35 Warehouses Cold storage Safe deposit storage
 - .36 Elevators, grain
 - .37
 - .38 Garages Livery stables
 - For private stables and garages see 728.94
 - .39 Other
 - .4 Factories**
 - .41 Textil factories or mills: wool, cotton, silk
 - .42 Breweries Malteries Distilleries
 - .43 Foundries Machine shops Iron and steel works
 - .44 Woodworking mills Furniture factories
 - .45 Carriage and car factories
 - .46 Paper mills
 - .47 Mills for flour, meal, feed, etc.
 - .48 Pottery, glass, terracotta, brick works
 - .49 Other factories

- 725.5 Hospitals and asylums** See also 725.6 Reformatories
- .51 Sick and wounded Eye and ear Incurables Lying-in
 - .52 Insane
 - .53 Idiotic Feeble-minded
 - .54 Blind Def and dum
 - .55 Paupers Almshouses
 - .56 Aged
 - .57 Children Orphans
 - .58 Foundling
 - .59 Soldiers homes
 - .6 Prisons and reformatories**
 - .61 State prisons Penitentiaries
 - .62 Jails Cell houses
 - .63 Reformatories for adults Houses of correction
 - .64 Reform schools
 - .65 Washingtonian homes Inebriate asylums
 - .66
 - .7 Refreshment Baths Parks**
 - .71 Cafés Restaurants
 - .72 Saloons
 - .73 Baths: warm, medicated, turkish, russian
 - .74 Swimming baths
 - .75 Buildings for watering places, spas, etc.
 - .76 Buildings for parks
 - .8 Recreation**
 - .81 Music halls
 - .82 Theaters Opera houses
 Grand stands, stadiums
 - .83 Halls for lectures, readings, etc.
 - .84 Bowling alleys Billiard saloons
 - .85 Gymnasiums Turn halls
 - .86 Skating rinks Bicycle rinks
 - .87 Boat houses
 - .88 Riding halls and schools
 - .89 Shooting galleries
 - .9 Other public bildings**
 - .91 Exhibition halls
 - .92 Temporary halls Tabernacles Wigwams
 - .93 Workingmen's clubs and institutes
 - .94

726 Ecclesiastic and religious

- .1 Temples
- .2 Mosques
- .3 Synagogs
- .4 Chapels Sunday school bildings
- .5 Churches
- .6 Cathedrals
- .7 Monasteries Convents Abbeys
- .8 Mortuary: cemetery chapels, receiving vaults, tombs
- .9 Other: Y. M. C. A. etc.

727 Educational and scientific

- .1 Schools
 Study and recitation rooms. Not including dormitory or boarding
- .2 Academies Seminaries Boarding schools
- .3 Colleges Universities
- .4 Professional and technical schools: law, theology, etc.
- .5 Laboratories: physical, chemic See 542.1 biologic, etc
 Zoologic and botanic gardens See also 590.7 and 580.7
- .6 Museums Herbariums See 580.7
- .7 Art galleries Studios
- .8 Libraries See 022 Library bildings
- .9 Other: learned societies, etc.

728 Residences

- .1 Tenement houses
- .11 City homes of poor
- .12 Country "
- .13 Cités ouvrières
- .2 Apartment houses Flats Family hotels
- .3 City houses Mansions Palaces
- .31 Between party walls Stone
- .32 " " Brick
- .33 " " Partly wood
- .34 Semidetacht, including end houses in city blocks Stone
- .35 " " " Brick
- .36 " " " Partly wood
- .37 Detacht Stone
- .38 " Brick
- .39 " Partly wood
- .4 Club houses Bildings for secret societies
- .5 Hotels Inns
- .51 City hotels
- .52 Summer resorts
- .53 Country inns

- 728.6 Village and country homes**
- .61 Village dwellings; on small lots
 - .62 Stone
 - .63 Brick
 - .64 Concrete or stucco
 - .65 Part masonry, part wood
 - .66 All wood
 - .67 Farm houses
 - .68 Laborers cottages
 - .7 **Seaside and mountain cottages** Chalets
 - .8 **Country seats**
 - .81 Castles
 - .82 Chateaux
 - .83 Manor houses
 - .84 Villas
 - .9 **Outbuildings**
 - .91 Porters lodges
 - .92 Servants quarters
 - .93 Kitchens and laundries
 - .94 Stables Carriage houses Garages
See also 725.38 Public garages and livery stables
 - .95 Barns Granaries
 - .96 Dairies
 - .97 Ice houses
 - .98 Conservatories Greenhouses Graperies
 - .99 Other

729 Architectural design and decoration

For decorative illumination see 745

- .1 **The elevation**
- .11 Composition
- .12 Distribution
- .13 Proportion
- .14 Light and shade
- .15 Perspective effect
- .16
- .17
- .18
- .19

For projection of shadows and graphics of light and shadow see 515.63 and 5157.

- .2 **The plan**
- .21 Elements required
- .22 Distribution
- .23 Proportion

729.3 Elementary forms

For construction of these forms see 721

- .31 Walls Moldings Cornises
- .32 Piers, columns, pilasters, pedestals and the orders Colonnades
- .33 Arches and arcades
- .34 Vaults and domes
- .35 Roofs Spires Dormers
- .36 Towers
- .37 Gables and pediments
- .38 Doors and windows Bays Oriels
- .39 Stairs and balustrades

See also 515.83 Stereotomy; 694.8 Stairbuilding

.4 Painted decoration

See also 729.7 Mosaic

- .41 Vegetable forms
- .42 Animal forms
- .43 Grotesque forms
- .44 Conventional and geometric forms
- .45 Painted moldings
- .46 Painted friezes and panels
- .47 Painted columns and pilasters
- .48 Painted ceilings and vaults
- .49 Painted walls

.5 Decoration in relief

For bas relief and figure carving see 730

- .51 Vegetable forms
- .52 Animal forms
- .53 Grotesque forms
- .54 Conventional and geometric forms
- .55 Carvd moldings
- .56 Carvd friezes and panels
- .57 Carvd columns and pilasters
- .58 Carvd ceilings and vaults
- .59 Other carvd ornament

.6 Incrustation and veneering

- .61 Of external walls (in brick, stone, or marble, tiles, etc.)
- .62 Of interiors
- .63 Intarsia and inlay
- .64 Niellowork
- .65 Enamel decoration
- .66
- .67
- .68
- .69

729.7 Mosaic

- .71 Mosaic ceiling
- .72 Mosaic walls
- .73 Mosaic floors
- .74 Other mosaic designs

.75

.76

.77

.78

.79

.8 Stained glass design

For technical processes see 666.1; for history see 748

- .81 Geometric windows
- .82 Medallion windows
- .83 Canopy windows
- .84 Figure windows
- .85 Mosaic windows
- .86 Other kinds of stained glass

.87

.88

.89

.9 Architectural accessories and fixt furniture

- .91 Altars
- .92 Pulpits Tribunes
- .93 Dais Thrones
- .94 Buffets
- .95 Mantels Overmantels
- .96 Screens Rood screen Reredos

.97

.98

.99

730 Sculpture

731 Materials and methods

732 Ancient

733 Greek and Roman

734 Medieval

735 Modern

736 Carving Seals Dies Gems Cameos

737 Numismatics Coins Medals

Artistic and historic side See also 332.4 Coins and coinage, as money

738 Pottery Porcelain

739 Bronzes Brasses Bricabrac

740 Drawing Decoration Design

Arts and crafts

- 741 Freehand Crayon Sketching from nature
Caricatures Cartoons

Collections on any subject go with that subject with reference from 741

- 742 Perspectiv See also 515.6
- 743 Art anatomy Life school
- 744 Mathematic and scientific drawing See 515
Instructions for architectural and other mathematical drawing, with demonstration^s
(if any) subsidiary.
Textbooks with mathematical demonstrations in scientific order or better in 515
- 745 Ornamental design: woven fabrics, carpets,
wall paper, etc. *Ornamental lettering*
- 746 Art needlework Fancy work
- 747 Interior decoration Distemper Fresco
Polychrome
- 748 Stained and iridescent glass For leading, see 698.5
- 749 Artistic furniture Fireplaces Frames, etc.

750 Painting

- 751 Materials and methods
- 752 Color See also 535.6 Optics
- 753 Epic Mythic Idealistic See 759.3 German school
- 754 Genre Still life See 759.4 French; and 759.9 Belgian
- 755 Religious, ecclesiastic See 759.5 Italian; and 759.6 Spanish
See also 246 Ecclesiology
- 756 Historical, battle scenes
- 757 Portrait
- 758 Landscape and marine Animals Flowers
- 759 Various schools of painting

- .1 American
- .2 English
- .3 German
- .4 French
- .5 Italian
- .6 Spanish
- .7 Slavic
- .8 Scandinavian
- .9 Other schools

- japan -
Dutch
Impressionists

760 Engraving

- 761 Wood
- 762 Copper and steel
- 763 Lithography
- 764 Chromolithography
- 765 Line and stipple
- 766 Mezzotint and aquatint
- 767 Etching Dry point
- 768 Bank note and machine
- 769 Collections of engravings

770 Fotografya

- 771 Materials Fotografic chemistry
- 772 Processes
 - Silver: daguerreotype, talbotype
 - Collodion: ambrotype, etc.
 - Dry plate
 - Color fotografya
- 773 Gelatin and pigment: woodburytype
- Carbon: lambertype, autotype, etc.
- 774 Gelatin and printers ink
 - Albortype, heliotype, artotype, etc.
- 775 Fotolithography, etc.
- 776 Fotozincography, etc.
- 777 Fotoengraving and fotoelectrotyping
- 778 Special applications
 - Moving pictures. See also 522.63 Astronomy; 578 Microscopy
- 779 Collections of fotografas

780 Music

- .1 Philosophy and esthetics of music .2 Compendis .3 Dictionaries .4 Essays
 .5 Periodicals .6 Societies .7 Education, conservatories .8 Polygraphy,
 libraries .9 History, divided by countries, like 930-999
 All heads include the music itself and everything about it: score, libretto, history,
 criticism, etc.

781 Theory of music

- .1 **Mathematic and physical**
 .2 **Elementary and general**
 .3 **Harmony Thorobass**
 .4 **Counterpoint**
 .5 **Musical form**
 .6 **Composition and instrumentation**
 .7 **Oriental theories and forms Russian music**
 .8 **Ancient Grecian theories, modes, and forms**
 .9

782 Dramatic music

- .1 **Grand opera**
 .2 **Epic Wagnerian**
 .3 **Other German grand opera**
 .4 **French grand opera**
 .5 **Italian grand opera**
 .6 **Comic and satiric**
 .7 **Opera bouffe**
 .8 **Operettas and cantatas** See 783.4
 .9 **Pantomimes, masks, etc.**

783 Sacred music

See 245 Hymnology, sacred poetry, for hymns alone; if with tunes they go in 783.9;
 786.8 Organ; 246.7-8 Evangelistic use and Eucharistic music; 264.2 Public worship

- .1 **Organ and orchestral Accompaniment**
 .2 **Cathedral servises: masses, vespers, etc.**
 .21 **Mass Communion servises**
 .22 **Common of the mass: kyrie, gloria in excelsis, credo, benedictus, Agnus Dei**
 .23 **Proper of the season: offertory, sequence, gradual, tract**
 .24 **Choral servis: antiphonal, responsiv**
 .25 **Plain song**
 .26 **Litanies**
 .27 **Lenten and penitential: Good Friday, reproaches**
 .28 **Festival: Christmas, Easter, etc.**
 .29 **Processional Recessional**

- 783.3 Oratorio Passion music
 .4 Anthem Motet Sacred cantata
 Polyphonic school, Palestrina. 16th century
 .5 Chant: Gregorian, Anglican
 .6 Chorale Tune Carol
 .7 Evangelistic: mission, revival Sunday school
 .8 Choir: men and boys Quartet Chorus
 .9 Congregational singing Psalmody Hymnody

784 Vocal music

- .1 Glee Madrigal Round Catch
 .2 Aria Cavatina Recitative e. g. in oratorio, mass, opera
 .3 Ballad and song
 Romantic, idyllic, sentimental; e. g. modern German
 .4 Popular ballads Volkslied; e. g. Irish, Scotch, etc.
 .5 Festival; e. g. sängerbund, eisteddfod Competitiv
 .6 College, society songs, and choruses
 .7 Negro minstrelsy, plantation songs
 .8 Collected songs
 .81 Solos
 .82 Duets
 .83 Trios
 .84 Quartets
 .85 Other part songs
 .86 Choruses
 .87 Collections for male voices
 .88 Collections for female voices
 .89 Other special collections
 .9 Vocal hygiene, culture, development, and methods Tonic
 sol-fa

785 Orchestral music

For dramatic orchestral music, see 782; sacred, 783.1

- .1 Symphony
 Three or more movements; e. g. adagio, andante, allegro, allegretto, scherzo, finale, etc.
 .2 Dramatic, illustrativ, descriptiv, program, imitativ
 e. g. Mendelssohn's Midsummer night's dream
 .3 Romantic, idyllic
 .4
 .5 Overture: e. g. Beethoven's Leonores
 .6 Concerto: orchestral with solo instrument
 .7 Chamber music
 .8 Suite
 .9 Arrangements, transcriptions, potpourris

786 Piano and organ

- .1 Piano History
- .2 Manufacture Tuning Temperament
- .3 Instruction
- .4 Piano music General collections
 - For piano concerto, see 785.6
- .41 Sonata Sonatina Rondo
- .42 Fantasia Arabesque
- .43 Nocturne Meditation Romantic Descriptiv
 - Songs without words
- .44 March and march form Polonaise Polka Mazurka
- .45 Dance form: national, classic, idealized
- .46 Modern dance music Society, festiv
- .47 Etudes Artistic ,For études for instruction, see 786.3
- .48 Variations, transcriptions
- .49 Arrangements
 - Four hands and more; e. g. orchestral music arranged for piano
- .5 Organ History
- .6 Bilding
- .7 Instruction
- .8 Organ music See also 783 Sacred music
- .81 Sonata
- .82 Fugue
- .83 Preludes
- .84 Interludes
- .85 Postludes
- .86 Offertories
- .87 Voluntaries Improvisations
- .88 Organ and piano
- .89 Organ, piano, and orchestra
- .9 Cabinet organ Melodeon

787 String instruments

Including with each, history, manufacture, instruction, music, etc. Music for 2 instruments is put with the one most prominent in the composition

Bowd

- .1 Violin
- .2 Viola
- .3 Violoncello
- .4 Double bass Contra bass
 - Plectral
- .5 Harp
- .6 Guitar Lute Mandolin, etc.
- .7 Banjo
- .8 Zither
- .9 Other stringd instruments Harpsichord

788 Wind instruments

Including with each, history, manufacture, instruction, music, etc.

Brass

- .1 Trumpet: slide and valv
- .2 Trombone
- .3 Cornet
- .4 Horns and other brass wind instruments
 - .41 French horn
 - .42 Saxhorn
 - .43 Saxophone
 - .44 Euphonium
 - .45 Ophicleide
 - .46 Key bugle
 - .47 Valv bugle
 - .48 Bass Tuba and contrabass tuba Serpent
 - .49 Other

Wood: flute group

- .5 Flute Waldflute Piccolo Fife Flageolet

Wood: reed group

- .6 Clarinet Bass clarinet Bassethorn
- .7 Oboe D'amore Da caccia Cor anglais
- .8 Bassoon Double bassoon Bombardon
- .9 Other reed wind instruments: bagpipe

789 Percussion and mechanical instruments

Percussion

- .1 Drum
- .2 Cymbals
- .3 Triangle
- .4 Tambourine Castanets Bones
- .5 Bells: chimes, carillon
- .6 Other percussion instruments: xylofone

Mechanical

- .7 Orchestrion
- .8 Music box
- .9 Other mechanical instruments

- 790 **Amusements** For ethics of amusements, see 175
- 791 **Public entertainment**
 Concert, panorama, circus, menagerie, summer resort, garden, rink, museum
 fair, festival
- 792 **Theater Pantomime Opera**
 Passion plays. Fotoplays. See also 782 Dramatic music
- 793 **Indoor amusements**
 Private theatricals, tableaux, charades, dancing
- 794 **Games of skill**
 Chess, checkers, billiards, bowling, bagatel
- 795 **Games of chance**
 Cards, dice, backgammon, dominoes
- 796 **Outdoor sports**
 Children's sports, athletic sports, coasting, skating, cycling, quoits, archery,
 croquet, lawn tennis
- 797 **Boating and ball**
 Rowing, yachting, baseball, football, cricket, polo
- 798 **Horsemanship and racing**
- 799 **Fishing, hunting, target shooting**

Literature

The classification, of literature is by *language*, not country, except that North and South American are separated from other English. Canadian French goes with 840; Australian and Indian English with .820; South American Spanish with 860, etc. Numbers assignd to individual authors include only their *literary* works of that section

and complete works which can not be divided. Books on other subjects go with their proper subjects, unless a 'special library' attracts all the authors' works, lives, etc. An author writing in 2 periods has all his books put in the one where most of them belong.

800 Literature: general works

801 Philosophy Theories Literary esthetics

802 Compendis, outlines

803 Dictionaries, cyclopedias

804 Essays, lectures, addresses

805 Periodicals, magazines, reviews

806 Societies: transactions, reports, etc.

807 Study and teaching of literature

807.18 story-telling

808 Rhetoric Treatises Collections

Divided .1 Poetry .2 Drama .3 Fiction .4 Essays .5 Oratory, see also 784.9 Vocal culture .6 Letters, epistolografy .7 Satire, humor .8 Collections too general to go with any one language, e. g. a book of quotations from many languages

These heds, and the same under 809, include only works about poetry, etc. regardless of language

809 History of literature in general

Including general histories of books and knowledge; e. g. Hallam's *Literature of the middle ages*

Divided like 808 .1 Poetry .2 Drama .3 Fiction, etc.

810 American literature

Includes Canadian English, which may be kept separate by prefixing C; e. g. C 811
Canadian poetry

.1 Philosophy .2 Compendis .3 Dictionaries .4 Essays on American literature
.5 Periodicals .6 Societies .7 Study and teaching .8 Collections .9 History of
American literature

811 American poetry

.02 Dramatic .03 Romantic and epic .04 Lyric, ballads .05 Didactic
.06 Descriptive .07 Satiric and humorous .08 Collections .09 History of
American poetry

.1 Colonial 1607-1776

.11	Sandys, George	1577-1644
.12	Bradstreet, Anne	1612-72
.13	Wigglesworth, Michael	1631-1705
.14	Green, Joseph	1706-80
.15	Livingston, William	1723-90
.16	Ferguson, Elizabeth	1739-1801

.2 Post-revolutionary 1776-1830

.21	Trumbull, John	1750-1831
.22	Dwight, Timothy	1752-1817
.23	Barlow, Joel	1755-1812
.24	Freneau, Philip	1752-1832
.25	Alsop, Richard	1761-1841
.26	Pierpont, John	1785-1866
.27	Dana, Richard Henry	1787-1879
.28	Sprague, Charles	1791-1875
.29	Minor poets	

.3 Middle 19th century 1830-61

.31	Halleck, Fitz-Greene	1790-1867
.32	Poe, Edgar Allan	1809-49
.33	Bryant, William Cullen	1794-1878
.34	Longfellow, Henry Wadsworth	1807-82
.35	Read, Thomas Buchanan	1822-72
.36	Whittier, John Greenleaf	1807-92
.37	Lowell, James Russell	1819-91
.38	Whitman, Walt	1819-92

.4 Later 19th century 1861-1900

.41	Stoddard, Richard Henry	1825-1903
.42	Hayne, Paul Hamilton	1831-86
.43	Stedman, Edmund Clarence	1833-1908
.44	Winter, William	1836-1918
.45	Miller, Cincinnatus Hiner (Joaquin)	1841-1913
.46	Taylor, Bayard	1825-78
.47	<i>Field, Eugene</i>	

.5 Early 20th century 1901-

.51 *Tweedale, Sara*

811 .4 *Riley, J. W.*

LITERATURE

812 American drama

- .1 Colonial 1607-1776
- .11 Warren, Mercy 1728-1814
- .12 Godfrey, Thomas 1736-63
- .13
- .2 Post-revolutionary 1776-1830
- .21 Tyler, Royall 1757-1826
- .22 Dunlap, William 1766-1839
- .23 Hillhouse, James Abraham 1789-1841
- .24 Ingersoll, Charles Jared 1782-1862
- .25
- .3 Middle 19th century 1830-61
- .31 Ritchie, Anna Cora Mowatt 1818-70
- .32 Mathews, Cornelius 1817-89
- .33 Boker, George Henry 1823-90
- .34
- .4 Later 19th century 1861-1900
- .41
- .5 Early 20th century 1901-

813 American fiction

- .1 Colonial 1607-1776
- .2 Post-revolutionary 1776-1830
- .21 Brackenridge, Hugh Henry 1748-1816
- .22 Rowson, Susanna 1762-1824
- .23 Brown, Charles Brockden 1771-1810
- .24 Cooper, James Fenimore 1789-1851
- .25 Ware, William 1797-1852
- .26 Neal, John 1793-1876
- .27
- .28
- .29
- .3 Middle 19th century 1830-61
- .31 Thompson, Daniel Pierce 1795-1868
- .32 Kennedy, John Pendleton 1795-1870
- .33 Hawthorne, Nathaniel 1804-64
- .34 Judd, Sylvester 1813-53
- .35 Simms, William Gilmore 1806-70
- .36 Melville, Herman 1819-91
- .37 Stowe, Harriet Beecher 1812-96
- .38
- .39
- .4 Later 19th century 1861-1900
- .41 Alcott, Louisa May 1832-88
- .42 Eggleston, Edward 1837-1902
- .43 Howells, William Dean 1837-
- .44 Aldrich, Thomas Bailey 1836-1907
- .45 Harte, Francis Bret 1839-1902
- .46 James, Henry 1843-1916
- .47 Hawthorne, Julian 1846-
- .48 Burnett, Frances Hodgson 1849-
- .49 Minor novelists
- .5 Early 20th century 1901-

Bret Harte 813.4

814 American essays

- | | | |
|-----------|-------------------------------------|-----------|
| .1 | Colonial 1607-1776 | |
| .2 | Post-revolutionary 1776-1830 | |
| .21 | Rush, Benjamin | 1745-1813 |
| .22 | Webster, Noah | 1758-1843 |
| .23 | Channing, William Ellery | 1780-1842 |
| .3 | Middle 19th century 1830-61 | |
| .31 | Ossoli, Margaret Fuller | 1810-50 |
| .32 | Giles, Henry | 1809-82 |
| .33 | Tuckerman, Henry Theodore | 1813-71 |
| .34 | Holland, Josiah Gilbert | 1819-81 |
| .35 | Whipple, Edwin Percy | 1819-86 |
| .36 | Emerson, Ralph Waldo | 1803-82 |
| .37 | Curtis, George William | 1824-92 |
| .4 | Later 19th century 1861-1900 | |
| .41 | Burroughs, John | 1837- |
| .42 | | |
| .43 | | |
| .44 | | |
| .5 | Early 20th century 1901- | |

See also 191.3

815 American oratory

- | | | |
|-----------|-------------------------------------|-----------|
| .1 | Colonial 1607-1776 | |
| .11 | | |
| .12 | | |
| .2 | Post-revolutionary 1776-1830 | |
| .21 | Hamilton, Alexander | 1757-1804 |
| .22 | Ames, Fisher | 1758-1808 |
| .23 | Wirt, William | 1772-1834 |
| .24 | Randolph, John | 1773-1833 |
| .25 | Clay, Henry | 1777-1852 |
| .26 | Calhoun, John Caldwell | 1782-1850 |
| .27 | Webster, Daniel | 1782-1852 |
| .28 | | |
| .29 | | |
| .3 | Middle 19th century 1830-61 | |
| .31 | Everett, Edward | 1794-1865 |
| .32 | Choate, Rufus | 1799-1859 |
| .33 | Sumner, Charles | 1811-74 |
| .34 | Phillips, Wendell | 1811-84 |
| .35 | Chapin, Edwin Hubbell | 1814-80 |
| .36 | Beecher, Henry Ward | 1813-87 |
| .4 | Later 19th century 1861-1900 | |
| .41 | | |
| .42 | | |
| .43 | | |
| .5 | Early 20th century 1901- | |

816 American letters Subdivided by periods, like 811

817 American satire and humor

- .1 Colonial 1607-1776**
- .11 Ward, Nathaniel 1570-1653
- .12 Alsop, George 1638- ?
- .13 Byles, Mather 1706-88
- .14 Hopkinson, Francis 1737-91
- .15 Peters, Samuel Andrew 1735-1826
- .2 Post-revolutionary 1776-1830**
- .21 Story, Isaac 1774-1803
- .22 Fessenden, Thomas Green 1771-1837
- .23 Paulding, James Kirke 1779-1860
- .24 Irving, Washington 1783-1859
- .25 Verplanck, Gulian Crommelin 1786-1870
- .26
- .27
- .3 Middle 19th century 1830-61**
- .31 Neal, Joseph Clay 1807-47
- .32 Holmes, Oliver Wendell 1809-94
- .33 Shelton, Frederick William 1814-81
- .34 Shillaber, B P (Mrs Partington) 1814-90
- .35 Saxe, John Godfrey 1816-87
- .36 Cozzens, Frederick Swartout, 1818-69
- .37 Browne, C: F (Artemus Ward) 1834-67
- .38 Haliburton, Thomas Chandler 1796-1865
- .39 Minor satirists and humorists
- .4 Later 19th century 1861-1900**
- .41 Warner, Charles Dudley 1829-1900
- .42 Locke, David Ross (P V Nasby) 1833-88
- .43 Burdette, Robert J 1844-1914
- .44 Clemens, S: L (Mark Twain) 1835-1910
- .45 Carleton, William 1845-1912
- .46 Shaw, Henry W (Josh Billings) 1818-85
- .47
- .5 Early 20th century 1901-**

818 American miscellany

- .3 Middle 19th century 1830-61**
- .31 Thoreau, Henry David 1817-62
- .32 Mitchell, Donald Grant (Ik Marvel) 1822-1908
- .4 Later 19th century 1861-1900**
- .5 Early 20th century 1901-**

820 English literature

Canadian literature may be classed as British, if preferred, but separated by prefixing C to 820. See note to 810

820.1 Philosophy .2 Compendia .3 Dictionaries .4 Essays on English literature
.5 Periodicals .6 Societies .7 Study and teaching .8 Collections .9 History

821. English poetry

.02 Dramatic .03 Romantic and epic .04 Lyric, ballads .05 Didactic
.06 Descriptive .07 Satiric and humorous .08 Collections .09 History of
English poetry

- .1 Early English 1066-1400**
- .11 Layamon 1150-1207
.12 Ormin 1187-1237
.13 Robert of Gloucester 1245-1307
.14 Minot, Lawrence 1313-52
.15 Langland, William 1332-99
.16 Barbour, John 1316-95
.17 Chaucer, Geoffrey 1340-1400
.18 Gower, John 1325-1408
~~.19 Minor writers~~
- .2 Pre-Elizabethan 1400-1558**
- .21 Lydgate, John 1369-1461
.22 Skelton, John 1460-1529
.23 Dunbar, William 1460-1520
.24 Douglas, Gavin 1474-1522
.25 Hawes, Stephen 1483-1509
.26 Lyndsay, Sir David 1490-1555
.27 Wyatt, Sir Thomas 1503-42
.28 Surrey, Henry Howard, earl of 1517-47
~~.29 Minor writers~~
- .3 Elizabethan 1558-1625**
- .31 Spenser, Edmund 1553-99
.32 Sidney, Sir Philip 1554-86
.33 Daniel, Samuel 1562-1619
.34 Drayton, Michael 1563-1631
.35 Davies, John 1569-1626
.36 Drummond, William 1585-1649
.37 Fletcher, Giles and Phineas 1585-1650
.38 Herbert, George 1593-1632
.39 Minor writers
- .4 Post-Elizabethan 1625-1702**
- .41 Suckling, Sir John 1609-42
.42 Crashaw, Richard 1616-50
.43 Herrick, Robert 1591-1674
.44 Waller, Edmund 1605-87
.45 Lovelace, Richard 1618-58
.46 Cowley, Abraham 1618-67
.47 Milton, John 1608-74
.48 Dryden, John 1631-1700
.49 Minor writers

LITERATURE

821.5	Queen Anne	Early 18th century	1702-45	
.51	Prior, Matthew		1664-1721	
.52	Parnell, Thomas		1679-1717	
.53	Pope, Alexander		1688-1744	See also 827.55
.54	Ramsay, Allan		1686-1758	
.55	Young, Edward		1684-1765	
.56	Thomson, James		1700-48	
.57	Collins, William		1721-59	
.58	Shenstone, William		1714-63	
.59	Minor writers			
.6	Later 18th century	Pre-revolutionary	1745-1800	
.61	Gray, Thomas		1716-71	
.62	Akenside, Mark		1721-70	
.63	Chatterton, Thomas		1752-70	
.64	Goldsmith, Oliver		1728-74	
	See also 823.64 and 824.66			
.65	Cowper, William		1731-1800	
.66	Macpherson, James		1738-96	
.67	Burns, Robert		1759-96	
.68	White, Henry Kirke		1785-1806	
.69	Minor writers			
.7	Early 19th century	Post-revolutionary	1800-37	
.71	Wordsworth, William		1770-1850	
.72	Coleridge, Samuel Taylor		1772-1834	
.73	Southey, Robert		1774-1843	
.74	Scott, Sir Walter		1771-1832	See also 823.73
.75	Moore, Thomas		1779-1852	
.76	Byron, George Gordon Noel, 6th lord		1788-1824	
.77	Shelley, Percy Bysshe		1792-1822	
.78	Keats, John		1795-1821	
.79	Minor writers			
.8	Victorian period		1837-1900	
.81	Tennyson, Alfred, 1st. baron		1809-92	
.82	Browning, Elizabeth Barrett		1809-61	
.83	Browning, Robert		1812-89	
.84	Rossetti, Dante Gabriel		1828-82	
.85	Morris, William		1834-96	
.86	Swinburne, Algernon Charles		1837-1909	
.87	Stevenson, R. L.			
.88	Meredith, Geo.			
.89	Minor writers			
.91	Early 20th century	1901-		
822	English drama			
.1	Early English	1066-1400		
.11	Chester plays			
.12	Coventry plays			
.13	Townley plays			

DECIMAL CLASSIFICATION

822.2	Pre-Elizabethan	1400-1558	
.21	Heywood, John	1506-65	
.22	Udall, Nicholas	1505-64	
.23	Bale, John	1495-1563	
.3	Elizabethan	1558-1625	
.31	Greene, Robert	1561-92	
.32	Marlowe, Christopher	1564-93	
.33	Shakespeare, William	1564-1616	
.34	Jonson, Ben	1574-1637	
.35	Beaumont, Francis and Fletcher, John	1584-1616 1579-1625	
.36	Webster, John	1582-1652	
.37	Massinger, Philip	1584-1640	
.38	Ford, John	1586-1639	
.39	Minor writers		
.4	Post-Elizabethan	1625-1702	
.41	Davenant, Sir William	1605-68	
.42	Etherege, Sir George	1637-88	
.43	Crowne, John	1644-99	
.44	Wycherly, William	1640-1715	
.45	Otway, Thomas	1651-85	
.46	Congreve, William	1670-1729	
.47	Vanbrugh, Sir John	1666-1726	
.48	Farquhar, George	1678-1707	
.49	Minor writers		
.5	Queen Anne	Early 18th century	1702-45
.51	Dennis, John	1657-1734	
.52	Southerne, Thomas	1660-1746	
.53	Centlivre, Mrs Susannah (Freeman)	1668-1723	
.54	Cibber, Colley	1671-1757	
.55	Rowe, Nicholas	1674-1718	
.56	Gay, John	1688-1732	
.57	Lillo, George	1693-1739	
.58			
.59	Minor writers		
.6	Later 18th century	1745-1800	
.61	Garrick, David	1716-79	
.62	Foote, Samuel	1721-77	
.63	Colman, George, the elder	1732-94	
.64	Home, John	1724-1808	
.65	Cumberland, Richard	1732-1811	
.66	Sheridan, Richard Brinsley	1751-1816	See also 825.64.
.67	Inchbald, Mrs Elizabeth (Simpson)	1753-1821	
.68			
.69	Minor writers		
.7	Early 19th century	1800-1837	
.71	Baillie, Joanna	1762-1851	
.72	Knowles, James Sheridan	1784-1862	
.8	Victorian period	1837-1900	
.91	Early 20th century	1901-	

- 823 English fiction
- | | | | |
|-----|--|-----------|-----------------|
| .1 | Early English | 1066-1400 | |
| .2 | Pre-Elizabethan | 1400-1558 | |
| | More's <i>Utopia</i> | | |
| .3 | Elizabethan | 1558-1625 | |
| | Lyly's <i>Euphues</i> | | |
| .4 | Post-Elizabethan | 1625-1702 | |
| .41 | Harrington, James | | 1611-77 |
| .42 | Bunyan, John | | 1628-88 |
| .43 | Mackenzie, George | | 1636-91 |
| .44 | Behn, Aphra | | 1640-89 |
| .5 | Queen Anne | 1702-45 | |
| .51 | DeFoe, Daniel | | 1661-1731 |
| .52 | Fielding, Henry | | 1707-54 |
| .6 | Later 18th century | 1745-1800 | |
| .61 | Richardson, Samuel | | 1689-1761 |
| .62 | Sterne, Laurence | | 1713-68 |
| .63 | Smollett, Tobias George | | 1721-71 |
| .64 | Goldsmith, Oliver | | 1728-74 |
| | See also 821.64 and 824.66 | | |
| .65 | Mackenzie, Henry | | 1745-1831 |
| .66 | Arbly, Frances (Burney), madame d' | | 1752-1840 |
| .67 | | | |
| .68 | | | |
| .69 | Minor writers | | |
| .7 | Early 19th century | 1800-37 | |
| .71 | Lewis, Matthew Gregory | | 1775-1818 |
| .72 | Edgeworth, Maria | | 1767-1849 |
| .73 | Scott, Sir Walter | | 1771-1832 |
| | | | See also 821.74 |
| .74 | Austen, Jane | | 1775-1817 |
| .75 | Porter, Jane | | 1776-1830 |
| .76 | Peacock, Thomas Love | | 1785-1866 |
| .77 | Galt, John | | 1779-1839 |
| .78 | Marryat, Frederick | | 1792-1848 |
| .79 | Minor writers | | |
| .8 | Victorian period | 1837-1900 | |
| .81 | Brontë, Charlotte | | 1816-55 |
| .82 | Thackeray, William Makepeace | | 1811-63 |
| .83 | Dickens, Charles | | 1812-70 |
| .84 | Lytton, Edward George Bulwer, 1st baron | | 1803-73 |
| .85 | Kingsley, Charles | | 1819-75 |
| .86 | Beaconsfield, Benjamin Disraeli, 1st earl of | | 1805-81 |
| .87 | Trollope, Anthony | | 1815-82 |
| .88 | Cross, Mary Ann (Evans) Lewes [George Eliot] | | 1819-80 |
| .89 | Minor writers | | |
| .91 | Early 20th century | 1901- | |

824 English essays

- | | | | |
|-----|---|------------------|----------------|
| .3 | Elizabethan | 1558-1625 | |
| .33 | Francis Bacon | 1561-1626 | |
| .4 | Post-Elizabethan | 1625-1702 | |
| | John Locke | 1632-1704 | |
| .5 | Queen Anne | 1702-45 | |
| .51 | Shaftsbury, Anthony Ashley Cooper, 3d earl of | 1671-1713 | |
| .52 | Addison, Joseph | 1672-1719 | |
| .53 | Steele, Sir Richard | 1671-1729 | |
| .54 | Budgell, Eustace | 1686-1737 | |
| .55 | | | |
| .56 | | | |
| .57 | | | |
| .58 | | | |
| .59 | | | |
| .6 | Later 18th century | 1745-1800 | |
| .61 | Moore, Edward | 1712-57 | |
| .62 | Kames, Henry Home, lord | 1696-1782 | |
| .63 | Johnson, Samuel | 1709-84 | |
| .64 | Hume, David | 1711-76 | See also 192.4 |
| .65 | Hawkesworth, John | 1715-73 | |
| .66 | Goldsmith, Oliver | 1728-74 | |
| | See also 821.64 and 823.64 | | |
| .67 | Gibbon, Edward | 1737-94 | |
| .68 | | | |
| .69 | Minor writers | | |
| .7 | Early 19th century | 1800-37 | |
| .71 | Mackintosh, Sir James | 1765-1832 | |
| .72 | Smith, Sydney | 1771-1845 | |
| .73 | Jeffrey, Francis, lord | 1773-1850 | |
| .74 | Brougham, Henry, 1st baron | 1778-1868 | |
| .75 | Lamb, Charles | 1775-1834 | |
| .76 | Hazlitt, William | 1778-1830 | |
| .77 | Hunt, Leigh | 1784-1859 | |
| .78 | | | |
| .79 | Minor writers | | |
| .8 | Victorian period | 1837-1900 | |
| .81 | De Quincey, Thomas | 1785-1859 | |
| .82 | Carlyle, Thomas | 1795-1881 | |
| .83 | Macaulay, Thomas Babington, 1st baron | 1800-59 | |
| .84 | Helps, Sir Arthur | 1817-75 | |
| .85 | Arnold, Matthew | 1822-88 | |
| .86 | Ruskin, John | 1819-1900 | |
| .87 | <i>Stevenson, Robert Louis</i> | | |
| .88 | | | |
| .89 | Minor writers | | |
| .91 | Early 20th century | 1901- | |

LITERATURE

825 English oratory For 'speakers' see 808.5

Subdivided by periods like 821

- | | | |
|-----|-------------------------------------|---------------------------|
| .6 | Later 18th century 1745-1800 | |
| .61 | Chatham, William Pitt, 1st earl of | 1708-78 |
| .62 | Burke, Edmund | 1729-97 |
| .63 | Fox, Charles James | 1749-1806 |
| .64 | Sheridan, Richard Brinsley | 1751-1816 See also 822.66 |
| .65 | Grattan, Henry | 1750-1820 |
| .66 | Pitt, William | 1759-1806 |

826 English letters

Subdivided by periods like 821

- | | | |
|-----|---|------------------|
| .2 | Pre-Elizabethan | 1400-1558 |
| | Paston letters | |
| .5 | Queen Anne 1702-45 | |
| .51 | Montagu, Lady Mary (Pierrepont) Wortley | 1690-1762 |
| .52 | Chesterfield, Philip Dormer Stanhope, 4th earl of | 1694-1773 |
| .53 | | |
| .6 | Later 18th century 1745-1800 | |
| .61 | Orford, Horace Walpole, 4th earl of | 1717-97 |
| .62 | Montagu, Mrs Elizabeth (Robinson) | 1720-1800 |

827 English satire and humor

- | | | |
|-----|-----------------------------------|-----------|
| .2 | Pre-Elizabethan 1400-1558 | |
| .21 | Barclay, Alexander | 1475-1552 |
| .3 | Elizabethan 1558-1625 | |
| .31 | Gascoigne, George | 1537-77 |
| .32 | Harington, Sir John | 1561-1612 |
| .33 | Hall, Joseph | 1574-1656 |
| .34 | Marston, John | 1575-1634 |
| .35 | Donne, John | 1573-1631 |
| .36 | | |
| .37 | | |
| .38 | | |
| .39 | | |
| .4 | Post-Elizabethan 1625-1702 | |
| .41 | Wither, George | 1588-1667 |
| .42 | Butler, Samuel | 1612-80 |
| .43 | Marvell, Andrew | 1620-78 |
| .44 | D'Urfey, Thomas | 1625-1723 |
| .45 | Oldham, John | 1653-83 |
| .46 | Brown, Thomas | 1663-1704 |
| .47 | King, William | 1663-1712 |
| .48 | Garth, Sir Samuel | 1665-1719 |
| .49 | Minor writers | |

- 827.5 **Queen Anne 1702-45**
- | | | |
|-----|-------------------------------------|-----------------|
| .51 | Ward, Edward | 1667-1731 |
| .52 | Swift Jonathan | 1667-1745 |
| .53 | Mandeville, Bernard de | 1670-1733 |
| .54 | Arbuthnot, John | 1675-1735 |
| .55 | Pope, Alexander | 1688-1744 |
| .56 | | See also 821.53 |
| .57 | | |
| .58 | | |
| .6 | Later 18th century 1745-1800 | |
| .61 | Churchill, Charles | 1733-65 |
| .62 | Amory, Thomas | 1691-1788 |
| .63 | Whitehead, Paul | 1710-74 |
| .64 | Junius <i>pseud.</i> | 1679-1772 |
| .65 | Wolcott, John [Peter Pindar] | 1738-1819 |
| .66 | | |
| .67 | | |
| .68 | | |
| .7 | Early 19th century 1800-37 | |
| .71 | Gifford, William | 1757-1826 |
| .72 | Hood, Thomas | 1798-1845 |
| .73 | | |
| .74 | | |
| .75 | | |
| .76 | | |
| .8 | Victorian 1837-1900 | |
| .81 | Jerrold, Douglas | 1803-57 |
| .82 | | |
| .83 | | |
| .84 | | |
| .85 | | |
| .86 | | |
| .91 | Early 20th century 1901- | |

828 English miscellany

Anecdotes, ana, epigrams, quotations, etc. if illustrative of any special subject (e. g. biography, history, science, art), go with that subject. If general they go in 828; if limited to any period, they take the same divisions as 821. For riddles, see 398.6; Proverbs, see 398.9. The same rule applies to other languages in 838, 848, etc.

829 Anglo-Saxon literature

- | | |
|----|-------------------------|
| .1 | Poetry |
| .2 | Cædmon |
| .3 | Beowulf |
| .4 | Cynewulf |
| .5 | Homilies and religious |
| .6 | Ælfric |
| .7 | Alfred the Great |
| .8 | Miscellaneous |
| .9 | Historic and biographic |

830 German literature

830.1 Philosophy .2 Compendis .3 Dictionaries .4 Essays, lectures and addresses
on German literature .5 Periodicals .6 Societies .7 Study and teaching .8 Col-
lections .9 History

831 German poetry

.02 Dramatic .03 Romantic and epic .04 Lyric, ballads .05 Didactic
.06 Descriptiv .07 Satiric and humorous .08 Collections .09 History of
German poetry

.1 Before the Crusades —1150**.11** *Hildebrandslied***.12** Otfried**.13** *Ludwigslied***.14** *Muspilli***.2 Middle high 1150-1300****.21** *Nibelungenlied***.22** *Gudrun*, and minor folk epics**.23** Heinrich von Veldeke

-1200 See also 839.3112

.24 Wolfram von Eschenbach**.25** Gottfried von Strassburg**.26** Hartmann von Aue

1170-1220

.27 Walther von der Vogelweide

1170-1230

.28 Ulrich von Lichtenstein

1199-1276

.29 Minor writers**.3 Period of decline 1300-1517****.31** Horneck, Ottokar von**.32** Hadamar von Laber**.33** Hermann von Sachsenheim

-1458

.34 Böheler, Hans *Die sieben weisen meister* 1414-**.35** Kaspar von der Röhn *Das heldenbuch***.36** *Theuerdank***.37** *Die Haimonskinder***.38** Mastersingers**.39** Minor writers**.4 Reformation; new high 1517-1625****.41** Agricola, Martin

1486-1556

.42 Waldis, Burkard

1490-1558

.43 Alberus, Erasmus

1500-53

.44 **Sachs, Hans**

1494-1576

.45 Ringwaldt, Bartholomäus

1530-99

.46 Rollenhagen, Georg

1542-1609

.47 Andrea, Johann Valentin

1586-1654

.5 Period of imitation 1625-1750

The Silesian schools

.51 Opitz von Boberfeld, Martin

1597-1639

.52 Flemming, Paul

1609-40

.53 Logau, Friedrich von

1604-55

.54 Gerhardt, Paul

1607-76

.55 Hofmannswaldau, Christian Hofmann von

1618-79

.56 Zesen, Philipp von

1619-89

.57 Brockes, Barthold Heinrich

1680-1747

.58 Bodmer, Johann Jakob

1698-1783

.59 Minor writers

831.6

Classic period 1750-1830

For Göthe and Schiller, see 832.6

.61	Gellert, Christian Fürchtegott	1715-69
.62	Klopstock, Friedrich Gottlieb	1724-1803
.63	Bürger, Gottfried August	1748-94
.64	Herder, Johann Gottfried von	1744-1803
.65	Voss, Johann Heinrich	1751-1826
.66	Körner, Karl Theodor	1791-1813
.67	Hölderlin, Johann Christian Friedrich	1770-1843
.68	Platen Hallermünde, August, graf von	1796-1835
.69	Minor writers	

.7 Postclassic period 1830-56

.71	Arndt, Ernst Moritz	1769-1860
.72	Eichendorff, Joseph, freiherr von	1788-1857
.73	Uhland, Johann Ludwig	1787-1862
.74	Rückert, Friedrich	1789-1866
.75	Heine, Heinrich	1799-1856
.76	Niemsch von Strehlenau, Nikolaus	1802-50
.77	Auersperg, Anton Alexander, graf von [Anastasius Grün]	1806-81
.78	Freiligrath, Ferdinand	1810-76
.79	Minor writers	

.8 Later 19th century 1856-1900

.81	Schefer, Leopold	1784-1862
.82	Kinkel, Johann Gottfried	1815-82
.83	Geibel, Emanuel	1815-84
.84	Bodenstedt, Friedrich Martin	1819-92
.85		
.86		
.87		
.88		
.89	Minor writers	

.91 Early 20th century 1901-

832 German drama

.5 Period of imitation 1625-1750

.51	Gryphius, Andreas	1616-64
.52	Lohenstein, Daniel Casper	1635-83
.53	Weise, Christian	1642-1708
.54	Gottsched, Johann Christoph	1700-76
.55	Gottsched, Luise Adelgunde Victorie (Culmus)	1713-62

.6 Classic period 1750-1830

.61	Lessing, Gotthold Ephraim	1729-81
.62	Göthe, Johann Wolfgang von	1749-1832
.63	Schiller, Johann Christoph Friedrich	1759-1805
.64	Klinger, Friedrich Maximilian	1753-1831
.65	Iffland, August Wilhelm	1759-1814
.66	Kotzebue, August Friedrich Ferdinand von	1761-1819
.67	Werner, Friedrich Ludwig Zacharias	1768-1823
.68	Kleist, Heinrich Bernt Wilhelm von	1777-1811
.69	Minor writers	

LITERATURE

- 832.7 **Postclassic period 1830-56**
- .71 Grabbe, Christian Dietrich 1801-36
- .72 Griepenkerl, Wolfgang Robert 1810-36
- .73 Grillparzer, Franz 1791-1872
- .74 Birch-Pfeiffer, Charlotte 1800-68
- .75 Münch-Bellinghausen, Eligius Franz Joseph
[Friedrich Halm] 1806-66
- .76 Laube, Heinrich 1806-84
- .77 Hebbel, Friedrich 1815-63
- .78 Gutzkow, Karl Ferdinand 1811-78
- .79 Minor writers
- .8 **Later 19th century 1856-1900**
- .81 Benedix, Julius Roderich 1811-73
- .82 Mosenthal, Salomon Hermann 1821-77
- .83 Brachvogel, Albert Emil 1824-78
- .84 Gottschall, Karl Rudolph 1823-1909
- .85 Lindau, Paul 1839-
- .89 Minor writers
- .91 **Early 20th century 1901-**
- 833 **German fiction**
- .08 *collections - just done*
- .5 **Period of imitation 1625-1750**
- .51 Buchholtz, Andrew Heinrich 1607-71
- .52 Grimmelshausen, Hans Jakob Christoffel von 1625-76
- .53 Anselm, Heinrich 1653-97
- .54 *Robinsonaden*
- .55 *Der Neue Amadis*
- .6 **Classic period 1750-1830**
- .61 Wieland, Christoph Martin 1733-1813
- .62 Richter, Jean Paul Friedrich 1763-1825
- .63 Hardenberg, Friedrich von [Novalis] 1772-1801
- .64 Hoffmann, Ernst Theodor Wilhelm 1776-1822
- .65 La Motte Fouqué, Friedrich H; C; 1777-1843
- .66 Arnim, Ludwig Achim von 1781-1831
- .67 Hauff, Wilhelm 1802-27
- .68 Chamisso, Adelbert von 1781-1838
- .69 Minor writers
- .7 **Postclassic period 1830-56**
- .71 Zschokke, Johann Heinrich Daniel 1771-1848
- .72 Brentano, Clemens 1778-1842
- .73 Tieck, Ludwig 1773-1853
- .74 Postl, Karl [Charles Sealsfield] 1793-1864
- .75 Häring, Wilhelm [Wilibald Alexis] 1798-1871
- .76 Hahn-Hahn, Ida, gräfin von 1805-80
- .77 Gerstäcker, Friedrich 1816-72
- .78 Hackländer, Friedrich Wilhelm 1816-77
- .79 Minor writers

DECIMAL CLASSIFICATION

- 833.8 **Later 19th century 1856-1900**
- | | | |
|-----|-----------------------------|-----------|
| .81 | Auerbach, Berthold | 1815-82 |
| .82 | Freytag, Gustav | 1816-95 |
| .83 | Scheffel, Joseph Viktor von | 1826-96 |
| .84 | Spielhagen, Friedrich | 1829-1911 |
| .85 | Heyse, Paul Johann Ludwig | 1830-1914 |
| .86 | Ebers, Georg | 1837-98 |
| .87 | Minor writers | |
- 8 Storm, Theodor → 1817-1888
- 833.87 *Wolff, Alfred 1819-1890*
- .01 **Early 20th century 1901-**
- 834 **German essays** Subdivided by periods like-831
- 835 **German oratory** " "
- 836 **German letters** " "
- 837 **German satire and humor**
- .2 **Middle high: minnesingers 1150-1300**
- | | | |
|-----|--|--|
| .21 | [Stricker, Der] <i>Der Pfaffe Amis und Beispiele</i> | |
| .22 | <i>Salomon und Morolf</i> | |
- .3 **Period of decline 1300-1517**
- | | | |
|-----|-------------------------------------|-----------|
| .31 | <i>Reineke Vos</i> See also 839.371 | |
| .32 | Brant, Sebastian | 1458-1521 |
- .4 **Reformation: new high 1517-1625**
- | | | |
|-----|------------------------------------|-----------|
| .41 | Murner, Thomas [Tyll Eulenspiegel] | 1475-1537 |
| .42 | Fischart, Johann | 1550-89 |
- .5 **Period of imitation 1625-1750**
- | | | |
|-----|-----------------------------|-----------|
| .51 | Moscherosch, Johann Michael | 1601-69 |
| .52 | Rachel, Joachim | 1618-69 |
| .53 | Wernicke, Christian | 1660-1720 |
| .54 | Liscow, Christian Ludwig | 1701-60 |
- .6 **Classic period 1750-1830**
- | | | |
|-----|---------------------------|---------|
| .61 | Rabener, Gottlieb Wilhelm | 1714-71 |
| .62 | Blumauer, Aloys | 1755-98 |
- 838 **German miscellany**
See 828, note

839 Minor Teutonic literatures

Subdivided by form, poetry, drama, etc. like 830

- .1 Low German
- .2 Frisian Old Saxon
- .3 Dutch literature Flemish
- .31 Dutch poetry
- .311 Middle ages 1200-1450
1 Jacob van Maerlant 1235-91 (2 Heinrije van Veldeke 1200, see 831.23) 3 Jan van Brabant 1250-94 4 Melis Stoke 1310 5 Dirck Potter 1428
- .312 Chambers of rhetoric 1450-1600
1 Antonius de Rovere 1482 2 Anna Bijns 1500 3 Matthijs de Castelein 1488-1548 4 Cornelis Everaert 1550 5 Jan Baptist Houwaert 1533-99 6 Dirk Volkerszoon Coornhert 1522-90 7 Philipp Marnix 1538-98 8 Cornelis van Ghistele 1600 9 Minor writers
- .313 Period of the Republic 1600-1700
1 Jacob Cats, 1577-1660 2 Joost van der Vondel 1587-1679 3 Marie Tesselschade Visscher 1594-1649 4 Constantijn Huygens 1596-1687 5 Reyer Anso 1626-69 6 Geraert Brandt 1626-85 7 Jan Antoniszoon van der Goes (Antonides) 1647-84 9 Minor writers
- .314 Poetic societies 1700-1800
1 Lucas Rotgans 1654-1710 2 Hubert Corneliszoon Poot 1689-1733 3 Arnold Hoogvliet 1687-1763 4 Sybrand Feitama 1694-1758 5 Willem van Haren 1710-68 6 Jacob Bellamy 1757-86 7 Hieronymus van Alphen 1746-1803 9 Minor writers
- .315 Modern period 1800-
1 Willem Bilderdijk 1756-1831 2 Jan Frederik Helmers 1767-1813 3 Cornelis Loots 1765-1834 4 Hendrik Tollens 1780-1856 5 Isaac da Costa 1798-1860 6 Jan Jacob Lodewijk ten Kate 1819-89 9 Minor writers
- .32 Dutch drama
- .323 Period of the Republic 1600-1700
1 Gerbrand Adriaenszoon Bredero 1585-1618 2 Corneliszoon Hoofft 1581-1647 3 Samuel Costa 1580-1650 4 Jan Vos 1620-67 5 Guillelmus Ogier 1619-89 6 Joachim Oudaan 1628-92 9 Other
- .324 Poetic societies 1700-1800
1 Pieter Langendijk 1683-1756 2 Andries Pels 3 Balthasar Huydecoper 1695-1778 4 Onno Zwier van Haren 1713-79 5 Jan Nomsz 1738-1803 9 Minor writers
- .325 Modern period 1800-
1 Samuel Iperuzoon Wiselius 1769-1845 2 Helvetius van den Bergh 1795-1865 3 Hendrik Jan Schimmel 1825-1906
- .33 Dutch fiction
- .334 Poetic societies 1700-1800
1 Elisabeth Bekker Wolff 1738-1804 2 Agatha Deken 1741-1804 3 Rhijnvis Feith 1753-1824
- .335 Modern period 1800-
1 Adriaan Loosjes 1761-1818 2 Jacob Vosmaer 1783-1834 3 Jan Frederik Oltmans 1800-54 4 Jacob van Lennep 1802-68 5 Hendrik Conscience 1812-83 6 Anna Louisa Geertruida Bosboom-Toussaint 1812-86
- .34 Dutch essays
- .344 Poetic societies 1700-1800
Justus van Effen 1684-1735
- .345 Modern period 1800-
1 Johannes Henricus van der Palm 1763-1840 2 Reinier Cornelis Bakhuizen van den Brink 1810-65 3 Everhardus Johannes Potgieter 1808-75 4 Nicolaas Beets 1814-1903 5 Coenraad Busken Huet 1826-86
- .37 Dutch satire and humor
- .371 Middle ages 1200-1450
Reinaert (van den vos Reinaerde) see 837.31
- .374 Poetic societies 1700-1800
Arend Simonszoon Fokke 1755-1812

DECIMAL CLASSIFICATION

839.38	Dutch miscellany		
		The subdivisions of 8 show the leading writers in other branches of knowledge. In classification, books are placed with their subjects, theology, history, etc.	
.381	Middle ages		1200-1450
		Jan van Boendale (Jan de Clerc) <i>Chronicles</i> , 1280-1365	
.384	Poetic societies		1700-1800
		Simon Stijl, <i>History</i> , 1731-1804; Jan Wagenaar, <i>History</i> , 1709-73	
.4	Platt Deutsch		
.5	Scandinavian		
.6	Old Norse	Icelandic	Faroese
.7	Swedish literature		
.71	Swedish poetry		
.711	Middle ages		1200-1520
		1 Nicolaus Hermanni 1391 2 Bishop Tomas 1443 3 Ericus Olai 1486 4 Ballads (Folkvisor)	
.712	Reformation		1520-1640
		1 Olaus Petri 1496-1552 2 Laurentius Petri 1499-1573	
.713	Age of Stjernhjelm		1640-1740
		1 Georg Stjernhjelm 1598-1672 2 Lars Johansson (Lucidor) 1640-74 3 Haquin Spegel 1645-1714 4 Israel Holmström 1660-1708 5 Gunno Eurelius Dahlstjerna 1661-1709 6 Johan Runius 1679-1713 7 Jacob Frese 1691-1729 8 Samuel von Triewald 1638-1743 9 Minor writers	
.714	Age of Dalin		1740-80
		1 Olof Carelius 1758 2 Olof von Dalin 1700-03 3 Hedvig Charlotta Nordenflycht 1718-63 4 Anders Odel 1718-73 5 Gustaf Filip Creutz 1729-85 6 Gustaf Fredrik Gyllenberg 1731-1808 7 Olof Bergklint 1733-1805 9 Minor writers	
.715	Age of Gustavus		1780-1800
		1 Karl Mikael Bellman 1740-1795 2 Johan Henrik Kellgren 1751-95 3 Bengt Lidner 1757-93 4 Johan Gabriel Oxenstjerna 1750-1818 5 Tomas Thorild 1759-1808 6 Anna Maria Lenngren 1754-1817 7 Karl Gustaf af Leopold 1756-1829 8 Frans Mikael Frazén 1772-1847 9 Minor writers	
.716	Modern period		1800-
		1 Per Henrik Ling 1776-1839 2 Johan Olof Wallin 1779-1839 3 Esaias Tegnéér 1782-1846 4 Erik Johan Stagnelius 1793-1823 5 Per Daniel Amadeus Atterbom 1790-1855 6 Karl Jonas Ludwig Almqvist 1793-1866 7 Johan Ludwig Runeberg 1804-77 8 Karl Vilhelm Böttiger 1807-79 9 Minor writers	
.72	Swedish drama		
.722	Reformation		1520-1640
		1 Johan Messenius 1579-1637 2 Magnus Olai Asteropherus -1647 3 Andreas Johannis Prytz 1590-1655	
.723	Age of Stjernhjelm		1640-1740
		Isak Börk -1701	
.725	Age of Gustavus		1780-1800
		1 Karl Israel Hallman 1732-1800 2 Gustaf 3 (king) 1746-92 3 Olof Kexél 1743-95 4 Karl Ewallsson 1756-1806	
.726	Modern period		1800-
		1 Johan Börjesson 1790-1865 2 Bernhard von Beskow 1796-1868 3 August Teodor Blanche 1811-63 4 Johan Kristofer Jolin 1818-84 5 Frans Hedberg 1828-1908 6 Per Johan Edvard Bäckström 1841-86	
.73	Swedish fiction		
.734	Age of Dalin		1740-1780
		1 Jakob Henrik Mörk 1714-63 2 Jakob Vallenberg 1746-78	
.735	Modern period		1800-
		1 Sofia Margareta von Knorring 1797-1848 2 Magnus Jakob Crusenstolpe 1795-1865 3 Fredrika Bremer 1801-65 4 Karl Anton Wetterbergh (Onkel Adam) 1804-89 5 Emilie Flygare Carlén 1807-92 6 Zakris Topelius 1818-98 7 Viktor Rydberg 1829-95 9 Minor writers	

LITERATURE

- 839.74 Swedish essays
 .746 Modern period 1800-
 1 Benjamin Karl Henrik Høijer 1767-1812 2 Lorenzo Hammarsköld
 1785-1827 3 Bernhard Ellis Malmström 1816-65 4 Karl Julius
 Lénström 1811-93 5 Gustaf Håkan Jordan Ljunggren 1823-1905
 6 Karl Rupert Nyblom 1832-1907
- .77 Swedish satire and humor
 .776 Modern period 1800-
 1 Johan Anders Wadman 1777-1837 2 Erik Sjöberg (Vitalis) 1794-
 1828 3 Kristian Erik Fahlerantz 1790-1866 4 Vilhelm August
 Detlof von Braun 1813-60 5 Gunnar Wennerberg 1817-1901
- .78 Swedish miscellany
 The subdivisions of 8 show the leading writers in other branches of knowl-
 edge. In classification, books are placed with their subjects, theology,
 history, etc.
- .781 Middle ages 1200-1520
 Canon Mattias, *Bible translation*, -1350; Peder Månsson, *Encyclopedia*,
 -1534
- .782 Reformation 1520-1640
 1 Peder Andersson Svart, *History*, -1562 2 Erik Göransson Tegel,
History, 1580-1636 3 Ægidius Girs, *History*, 1580-1639 4 Gustavus
 Adolphus (king), *History*, 1594-1632
- .783 Age of Stjärnhjelm 1640-1740
 1 Olof Rudbeck, *Medicin*, 1630-1702 2 Urban Hjärne 1641-1724
 3 Johan Peringskjöld, *History*, 1654-1720 4 Anders Rydelius, *Philosophy*
 1671-1738 5 Anders Celsius, *Astronomy*, 1701-44 6 Emanuel
 Svedenborg, *Theology*, 1688-1772
- 784 Age of Dalin 1740-1780
 1 Karl Gustaf Tessin, *History*, 1695-1770 2 Karl von Linné, *Botany*
 1707-78 3 Johan Ihre, *Philology*, 1707-80 4 Sven Lagerbring
History, 1707-37 5 Anders Johan von Höpken, *History*, 1712-89,
 6 Olof Celsius, *History*, 1716-94 7 Anders af Botin, *History*, 1724-
 90 8 Torbern Olof Bergman, *Chemistry*, 1735-84 Karl Vilhelm
 Scheele, *Chemistry*, 1742-86
- .786 Modern period 1800-
 1 Erik Gustaf Geijer, *History*, 1783-1847 2 Anders Magnus Strinholm,
History, 1786-1862 3 Anders Fryxell, *History*, 1795-1881 4 Frederik
 Ferdinand Carlson, *History*, 1811-87
- .8 Danish and Norwegian literature
- .81 Danish and Norwegian poetry
- .811 Middle ages 1100-1500
 1 Anders Sunesen 2 Ballæds (Kjæmpeviser)
- .812 Reformation 1500-1560
 Hans Tavsen 1494-1561
- .813 Learned period 1560-1700
 1 Anders Arrebo 1587-1637 2 Anders Bording 1619-77 3 Peder
 Syv 1631-1702 4 Thomas Kingo 1634-1703 5 Peder Dass 1647-
 1708 6 Dorthe Engelbrektsdatter 1635-1716 7 Sören Terkelsen
 1661 8 Jacob Vorm 1642-93
- .814 Age of Holberg 1700-1750
 1 Jørgen Sorterup 1662-1723 2 Tøger Reenberg 1656-1742 3 Kristian
 Falster 1690-1752 4 Hans Adolph Brorson 1694-1764 5 Ambrosius
 Stub 1705-58 6 Kristian Frederik Wadskjær 1712-79
- .815 Period of enlightenment 1750-1800
 1 Kristian Braunmann Tullin 1728-65 2 Johannes Evald 1743-81
 3 Johan Herman Vessel 1742-85 4 Edvard Storm 1749-94
 5 Kristen Henriksen Pram 1756-1821 6 Jens Baggesen 1764-
 1826 7 Knud Lyne Rahbek 1760-1830 8 Malte Konrad Bruun 1775-
 1826 9 Minor writers
- 816 Modern period 1800-
 1 Adam Gottlob Oehlenschläger 1779-1850 2 Bernhard Severin Inge-
 mann 1789-1862 3 Nicolai Frederik Severin Grundtvig 1783-1872
 4 Johannes Carsten Hauch 1790-1871 5 Henrik Wergeland 1808-45
 6 Ludvig Bødtcher 1793-1874 7 Frederik Paludan-Müller 1809-76
 8 Carl Ploug 1813-94 9 Minor writers

DECIMAL CLASSIFICATION

- 839.82 Danish and Norwegian drama
- .823 **Learned period** 1560-1700
 1 Hieronimus Justesen Rauch 1539-1607 2 Hans Kristensen Sthen
 1544-1603 3 Peder Jensen Hegelund 1542-1614 4 Hans Thomsen
 Stege -1628 5 Jens Lönberg 1663-1700
- .824 **Age of Holberg** 1700-1750
 1 Ludvig Holberg 1684-1754
- .825 **Period of enlightenment** 1750-1800
 1 Charlotte Dorothea Biehl 1731-88 2 Johan Nordal Bruun 1745-
 1816 3 Ole Johan Samsøe 1759-96 4 Enevold Falsen 1755-1808
 5 Thomas Thaarup 1749-1821 6 Kristian Levin Sander 1756-1819
 7 Olaf Kristian Olufsen 1764-1827 8 Peter Andreas Heiberg 1758-
 1841 9 Minor writers
- .826 **Modern period** 1800-
 1 Casper Johannes Boye 1791-1853 2 Johan Ludvig Heiberg 1791-
 1860 3 Henrik Hertz 1798-1870 4 Thomas Overskou 1798-1873
 5 Christian Knud Frederik Molbech 1821-88 6 Henrik Ibsen 1828-
 1906
- .83 Danish and Norwegian fiction
- .836 **Modern period** 1800-
 1 Thomasine Christine Gyllembourg-Ehrensward 1773-1856 2 Steen
 Steensen Blicher 1782-1848 3 Christian Winther 1796-1876 4 Hans
 Christian Andersen 1805-75 5 Meyer Aaron Goldschmidt 1819-
 87 6 Holger Drachmann 1846-1908 7 Bjørnstjerne Bjørnson
 1832-1910
- .84 Danish and Norwegian essays
- .845 **Period of enlightenment** 1750-1800
 Rasmus Nyerup 1759-1829
- .846 **Modern period** 1800-
 1 Niels Mathias Petersen 1781-1862 2 Søren Aaby Kierkegaard 1813-
 55 3 Rudolph Keyser 1803-64 4 Peter Andreas Munch 1810-
 63 5 Johan Sebastian Cammermeyer Welhaven 1807-73 6 Georg
 Morris Cohen Brandes 1842-
- .87 Danish and Norwegian satire and humor
- .875 **Period of enlightenment** 1750-1800
 1 Peder Magnus Trojel 1743-96 2 Peder Kofoed Trojel 1754-84
 3 Thomas Kristoffer Bruun 1750-1834
- .88 Danish and Norwegian miscellany
 The subdivisions of 8 show the leading writers in other branches of knowledge.
 In classification, books are placed with their subjects, theology, history, etc.
- .881 **Middle ages** 1100-1500
 1 Saxo (Longus) Grammaticus, *History*, -1208 2 Svend Aagesen, *History*
- .882 **Reformation** 1500-1560
 1 Kristiern Pedersen (Father of Danish literature) 1480-1554 2 Povel
 Eliesen, *Sermons*, 1480- 3 Hans Mikkelsen, *Bible translation*, -1532
 4 Peder Plade (Palladius) 1503-60 5 Henrik Smith, *Medicin*, -1563
- .883 **Learned period** 1560-1700
History: Hans Svaning 1508-1584 Anders Sørensen Vedel 1542-1616
 Peder Klausen 1545-1614 Arild Hvitfeld 1549-1609 Klaus Lyskander
 1558-1623 Ole Worm 1588-1654 Peder Resen 1625-88
Theology: Niels Hemmingsen 1513-1600 Holger Rosenkranz 1574-
 1642 Jesper Brochmand 1585-1652
Science: Tyge Brahe, *Astronomy*, 1546-1601 Kaspar Bartholin,
Medicin, 1585-1629 Thomas Bartholin, *Anatomy*, 1616-80 Ole
 Borch, *Medicin*, 1626-90 Niels Stensen, *Anatomy*, 1638-86 Ole
 Römer, *Astronomy*, 1644-1710
- .884 **Age of Holberg** 1700-1750
 1 Erik Pontoppidan, *History*, 1698-1764 2 Jacob Langebek, *History*,
 1710-75 3 Frederik Kristian Eilschov, , 1725-50
 4 Gerhard Schöning, *History*, 1722-80 5 Peder Frederik Suhm,
History, 1728-98
- .9 Gothic

840 French literature

- 840.1 Philosophy .2 Compendis .3 Dictionaries .4 Essays, lectures, and addresses on French literature .5 Periodicals .6 Societies .7 Study and teaching
.8 Collections .9 History

841 French poetry

- .02 Dramatic .03 Romantic and epic .04 Lyric, ballads .05 Didactic
.06 Descriptive .07 Satiric and humorous .08 Collections .09 History of French poetry
- .1 Early French 842-1400**
- .11 Chanson de Roland *Chanson de geste*
- .12 Wace, Robert
- .13 Marie de France
- .14 Chrestien de Troyes -1191
- .15 Quesnes de Bethune -1228
- .16 Thibaut 4, comte de Champagne 1201-53
- .17 Rutebeuf 1230-
- .18 Roman de la rose
Guillaume de Loris, 1195-1260 Jean de Meung, 1280-1320
- .19 Minor poets
- .2 Transition period 1400-1500**
- .21 Chartier, Alain 1386-1458
- .22 Orléans, Charles duc d' 1391-1465
- .23 Coquillart, Guillaume 1421-1510
- .24 Baude, Henri 1430-95
- .25 Villon, François 1431-85
- .26
- .27
- .28
- .29 Minor poets
- .3 Renaissance 1500-1600**
- .31 Daurat, Jean 1510-88
- .32 Du Bellay, Joachim 1524-60
- .33 Belleau, Remy 1528-77
- .34 Ronsard, Pierre de 1524-85
- .35 Thiard, Pontus de 1521-1605
- .36 Baif, Jean Antonie de 1532-89
- .37 Saluste du Bartas, Guillaume de 1544-90
- .38 Desportes, Philippe 1546-1606
- .39 Minor poets
- .4 Classic period 1600-1715**
- .41 Malherbe, François de 1555-1628
- .42 Maynard, François 1582-1646
- .43 Racan, Honorat de Bueil, marquis de 1589-1670
- .44 Chapelain, Jean 1595-1674
- .45 La Fontaine, Jean de 1621-95
- .46 Deshoulières, Antoinette (du Ligier de la Garde),
Madame 1637-94
- .47 Chaulieu, Guillaume Amfrye de 1639-1720
- .48
- .49 Minor poets

- 841.5 **18th century 1715-89**
- .51 Rousseau, Jean Baptiste 1670-1741
- .52 Racine, Louis 1692-1763
- .53 Pompignan, Jean Jacques de Franc, marquis de 1709-84
- .54 Delille, Jacques 1738-1813
- .55 Roucher, Jean Antoine 1745-94
- .56 Chénier, André Marie de 1762-94
- .57 Parny, Evariste Désiré Desforges, vicomte de 1753-1814
- .58
- .59 Minor poets
- .6 **Revolution and empire 1789-1815**
- .61 Lebrun, Ponce Denis Écouchard 1729-1807
- .62 Fontanes, Louis, marquis de 1757-1821
- .63 Parseval Grandmaison, François Auguste 1759-1834
- .64 Luce de Lancival, Jean Charles Julien 1764-1810
- .65 Désaugiers, Marc Antoine Madeleine 1772-1827
- .66 Campenon, François Nicolas Vincent 1772-1843
- .67 Millevoye, Charles Hubert 1782-1816
- .68
- .69 Minor poets
- .7 **Constitutional monarchy 1815-48**
- .71 Béranger, Pierre Jean de 1780-1857
- .72 Delavigne, Jean François Casimir 1793-1843 See 842.72
- .73 Deschamps, Émile 1791-1871
- .74 Lamartine, Alphonse Marie Louis de Prat de 1792-1869
- .75 Reboul, Jean 1796-1864
- .76 Vigny, Alfred Victor, comte de 1799-1863 See 842.75
- .77 Musset, Louis Charles Alfred de 1810-57 See 842.76
- .78 **Hugo, Victor Marie, comte** 1802-85
See also 842.78 and 843.78
- .79 Minor poets
- .8 **Later 19th century 1848-1900**
- .81 Laprade, Pierre Marin Victor Richard de 1812-83
- .82 Dupont, Pierre 1821-70
- .83 Banville, Théodore Faullain de 1820-91
- .84 Sully-Prudhomme, René François Armand 1839-1907
- .85 Coppée, Francis Édouard Joachim 1842-1908 See 842.83
- .86 Deroulède, Paul 1846-1914
- .87
- .88
- .89 Minor poets
- .91 **Early 20th century 1901-**
- 842 **French drama**
- .09 ^{History} **Early French 842-1400**
- .11 Mysteries and miracles
- .12 Adam de la Halle 1240-86
- .13 Bodel, Jean
- .14
- .15
- .16
- .17
- .18
- .19 Minor dramatists

LITERATURE

- 842.2 **Transition period** 1400-1500
- .21 Gresban, Arnoul
- .22 Michel, Jean -1493
- .23 Gringoire, Pierre 1480-1544
- .24
- .25
- .26
- .27
- .28
- .29 Minor dramatists
- .3 **Renaissance** 1500-1600
- .31 Le Coq, Thomas
- .32 Baif, Lazare de
- .33 La Peruse, Jean Bastier de 1530-55
- .34 Jodelle, Étienne 1532-73
- .35 Grévin, Jacques 1538-70
- .36 La Taille, Jean de 1540-1608
- .37 Garnier, Robert 1545-1601
- .38 Larivey, Pierre de 1550-1612
- .39 Minor dramatists
- .4 **Classic period** 1600-1715
- .41 Corneille, Pierre 1606-84
- .42 Molière, Jean Baptiste Poquelin, *called* 1622-73
- .43 Corneille, Thomas 1625-1709
- .44 Boursault, Edme 1638-1701
- .45 Racine, Jean 1639-99
- .46 Brueys, David Augustin de 1640-1723
- .47 Dufresny, Charles Rivière 1648-1724
- .48 Baron, Michel Boyron, *called* 1653-1729
- .49 Minor dramatists
- .5 **18th century** 1715-89
- .51 La Motte, Antoine Houdart de 1672-1731
- .52 Crébillon, Prosper Jolyot de 1674-1762
- .53 Destouches, Philippe Nericault 1680-1754
- .54 Marivaux, Pierre Carlet de Chamblain de 1688-1763 See 843.52
- .55 Piron, Alexis 1689-1773
- .56 Voltaire, François Marie Arouet de 1694-1778 See 843.54
- .57 Sédaine, Michel Jean 1719-97
- .58 Beaumarchais, Pierre Augustin Caron de 1732-99
- .59 Minor dramatists
- .6 **Revolution and empire** 1789-1815
- .61 Ducis, Jean François 1733-1816
- .62 Collin-Harleville, Jean François 1735-1806
- .63 La Harpe, Jean François de 1739-1803 See 844.61
- .64 Fabre d'Églantine, Philippe François Nazaire 1755-94
- .65 Andrieux, François Guillaume Jean Stanislas 1759-1833
- .66 Chenier, Marie Joseph 1764-1811
- .67 Picard, Louis Benoît 1769-1828
- .68 Lemercier, Louis Jean Népomucène 1771-1840
- .69 Minor dramatists

DECIMAL CLASSIFICATION

- 842.7 Constitutional monarchy 1815-48**
- .71 Soumet, Alexandre 1788-1845
 - .72 Delavigne, Jean François Casimir 1793-1843 See 841.72
 - .73 Scribe, Augustin Eugène 1791-1861
 - .74 Ancelot, Jacques Arsène François Polycarpe 1794-1864
 - .75 Vigny, Alfred Victor, comte de 1799-1863 See 841.76
 - .76 Musset, Louis Charles Alfred de 1810-57 See 841.77
 - .77 **Dumas, Alexandre, the elder** 1806-70 See 843.76
 - .78 **Hugo, Victor Marie, comte** 1802-85
See also 841.78 and 843.78
 - .79 Minor dramatists
- .8 Later 19th century 1848-1900**
- .81 Labiche, Eugène Marin 1815-88
 - .82 Ponsard, François 1824-67
 - .83 Augier, Guillaume Victor Émile 1822-89
 - .84 Dumas, Alexandre, fils 1824-95
 - .85 Bornier, Henri de 1825-1901
 - .86 Sardou, Victorien 1831-1908
 - .87 Pailleron, Édouard 1834-99
 - .88 Coppée, Francis Édouard Joachim 1842-1908 See 841.85
 - .89 Minor dramatists
- .91 Early 20th century 1901-**
- 843 French fiction**
- .2 Transition period 1400-1500**
- .21 Christine de Pisan 1363-1431
 - .22 Jean de Tuim
 - .23 La Sale, Antoine de 1398-1462
 - .24 Chastelain, Georges 1403-75
 - .25
 - .26
 - .27
 - .28
 - .29 Minor writers
- .3 Renaissance 1500-1600**
- .31 Marguerite de Navarre 1492-1549
 - .32 Desperriers, Bonaventure 1500-44
 - .33 Herberay, Nicolas d' -1552
 - .34 Du Fail, Noël -1585
 - .35 Bouchet, Guillaume 1526-1606
 - .36 Beroalde de Verville, François 1558-1612
 - .37
 - .38
 - .39 Minor writers
- .4 Classic period 1600-1715**
- .41 Urfé, Honoré d' 1568-1625
 - .42 Gomberville, Marin Le Roy de 1600-47
 - .43 La Calprenède, Gauthier de Costes de 1602-63
 - .44 Scudéry, Georges de 1601-67
 - .45 Scudéry, Madeleine de 1607-1701
 - .46 Cyrano de Bergerac, Savinien 1620-55
 - .47 Perrault, Charles 1628-1703
 - .48 Lafayette, Marie Madeleine Pioche de la Vergne, comtesse de 1634-93
 - .49 Minor writers

LITERATURE

- 843.5 18th century 1715-89
- .51 Le Sage, Alain René 1668-1747
- .52 Marivaux, Pierre Carlet de Chamblain de 1688-1763 See 842.54
- .53 Prévost d'Exiles, Antoine François 1697-1763
- .54 Voltaire, François Marie Arouet de 1694-1778 See 842.56
- .55 Crébillon, Claude Prosper Jolyot de, fils 1707-77
- .56 Rousseau, Jean Jacques 1712-78
- .57 Restif de la Bretonne, Nicolas Edme 1734-1806
- .58 Florian, Jean Pierre Claris de 1755-94
- .59 Minor writers
- .6 Revolution and empire 1789-1815
- .61 St Pierre, Jacques Henri Bernardin de 1737-1814
- .62 Staël Holstein, Anne Louise Germaine (Necker),
baronne de 1766-1817
- .63 Constant de Rebecque, Henri Benjamin 1767-1830
- .64 Maistre, Xavier de 1763-1852
- .65 Chateaubriand, François Auguste René, vicomte de 1768-1848
- .66
- .67
- .68
- .69 Minor writers
- .7 Constitutional monarchy 1815-48
- .71 Beyle, Marie Henri [de Stendhal] 1783-1842
- .72 Nodier, Charles 1790-1844
- .73 Balzac, Honoré de 1799-1850
- .74 Sue, Marie Joseph, called Eugène 1804-57
- .75 Souvestre, Émile 1806-54
- .76 Dumas, Alexandre, the elder 1806-70 See 842.77
- .77 Gautier, Théophile 1811-72
- .78 Hugo, Victor Marie, comte 1802-85
See also 841.78 and 842.78
- .79 Minor writers
- .8 Later 19th century 1848-1900
- .81 Mérimée, Prosper 1803-70
- .82 Dudevant, Amantine Lucile Aurore Dupin
[George Sand] 1804-76
- .83 Feuillet, Octave 1822-90
- .84 Flaubert, Gustave 1821-81
- .85 Eckmann-Chatrion { Eckmann, Émile 1822-99
Chatrion, Alexandre 1826-90
- .86 About, Edmond François Valentin 1828-85
- .87 Cherbuliez, Victor 1829-99
- .88 Daudet, Alphonse 1840-97
- .89 Minor writers
- .91 Early 20th century 1901-
- 844 French essays
- .3 Renaissance 1500-1600
- .31 Montaigne, Michel Eyquem de 1533-92
- .4 Classic period 1600-1715
- .41 Du Vair, Guillaume 1556-1621
- .42 Saint-Evremond, Charles de Marguetel de Saint-
Denis de 1613-1703
- 92 - Vaucl (Loti) - 1850 -
- 93 - Zola - 1840 -

DECIMAL CLASSIFICATION

844.5	18th century	1715-89	
.51	Fontenelle, Bernard le Bovier de		1657-1757
.52	Montesquieu, Charles le Secondat, baron de		1689-1755
.53	Alembert, Jean le Rond d'		1717-83
.6	Revolution and empire	1789-1815	
.61	La Harpe, Jean François de		1739-1803 See 842.63
.62	Joubert, Joseph		1754-1824
.63	Courier de Méré, Paul Louis		1772-1825
.64	Senancour, Étienne Pivert de		1770-1846
.7	Constitutional monarchy	1815-48	
.71	La Mennais, Hugues Félicité Robert de		1782-1854
.72	Villemain, Abel François		1790-1870
.73	Planche, Jean Baptiste Gustave		1808-57
.74	Sainte Beuve, Charles Augustin		1804-69
.75	Saint-Marc Girardin		1801-73
.76	Janin, Jules Gabriel		1804-74
.77	Nisard, Jean Marie Napoléon Désiré		1806-88
.8	Later 19th century	1848-1900	
.81	Quinet, Edgar		1803-75
.82	Renan, Ernest		1823-92
.83	Taine, Hippolyte Adolphe		1828-93
.91	Early 20th century	1901-	

845 French oratory Subdivided by periods like 841

846 French letters Subdivided by periods like 841

847 French satire and humor *Chantal, marquise de*

.1	Early French	842-1400	
.11	Guyot de Provins		
.12	<i>Roman du Renard</i>	See 837.31 and 839.371	
.13	Deschamps, Eustache		1320-1400
.3	Renaissance	1500-1600	
.31	Marot, Clément		1495-1544
.32	Rabelais, François		1495-1553
.33	<i>La Satyre Ménippée</i>		1594
.34	Aubigné, Théodore Agrippa d'		1550-1630
.35	Regnier, Mathurin		1573-1613
.4	Classic period	1600-1715	
.41	Viau, Théophile de		1590-1626
.42	Saint Amant, Marc Antoine Gérard		1594-1661
.43	Scarron, Paul		1610-60
.44	Benserade, Isaac de		1612-91
.45	Furetière, Antoine		1620-88
.46	Boileau Despréaux, Nicolas		1636-1711
.47	Regnard, Jean François		1655-1709
.5	18th century	1715-89	
.51	Gresset, Jean Baptiste Louis		1709-77
.52	Gilbert, Nicolas Joseph Laurent		1751-80
.7	Constitutional monarchy	1815-48	
.71	Barthélemy, August Marseille		1796-1867
.72	Barbier, Henri Auguste		1805-82

848 French miscellany Subdivided by periods like 841

- .41 *La Rochefoucauld, François VI, duc de,*
- .54 *Voltaire, F. M. A. de,*
- .71 *Girardin, Mme. de.*

846.54
Voltaire, F. M. A. de

849 Provençal literature

- .6 Provençal poetry
- .11 1st period 900-1100
Poetry in hands of clergy. No folk poetry preservd. Form mainly epk
Language not yet fixt. Country under rule of counts, nominally subject to
emperor, really independent till 1486, then reunited to France
- .111 Epic poetry
Boethius
- .112 Lyric poetry
- .119 Minor poetry Didactic
- .12 Golden age 1100-1300
Poets mainly knights, but after 1250 almost exclusively burghers. Lyric most
important
- .121 Romances of chivalry
Girart de Rossilho
- .122 Historical poetry
Croisade contre les Albigeois
- .123 Romans d'aventures
Flamenca
- .124 Lyric poetry
- .125 Bernart de Ventadorn, flourisht about 1140-95
- .126 Born, Bertran de " " 1180-95
- .127 Arnaut, Daniel " " 1180-1200
- .128 Borneill, Guiraut de " " 1175-1220
- .129 Minor poetry
Nearly 500 poets named beside anonymous poems. Form prevails over
content; great variety of poetic forms. These lyric poets are the real
Troubadours
- .13 Aftermath 1300-1500
Downfall of language and literature owing to lack of content and to political
and social causes, specially the crusade against the Albigenes
- .131 Poets of school of Toulouse
Arnaut Vidal, first recipient of the Golden Violet, 1324. Poetry artificial, a
craft. Las Leys d'Amors is the code of poetic laws, by Guillem Molinier,
chancellor of 'Consistory de la gaya sciensa' establisht at Toulouse 1324.
First prize a golden violet. When in danger of perishing, consistory revived
in 1484 and poetic exercises styled 'Jeux floraux'
- .132 La Noble Leyczon
Religious poetry of Waldenses
- .139 Minor poetry
- .14 Decadence 1500-
Provençal sinks to position of a dialect despite fitful attempts to revive it, the
most recent, that connected with publication of Li Provençalo 1852
- .141 Goudouli, Pierre de 1579-1649
- .142 Despourrins, Cyprien 1698-1755
- .143 Jasmin, Jacques 1798-1864
- .144 Roumanille, Joseph 1818-91
- .145 Aubanel, Jos. Marie J. Baptiste Théodore 1829-86
- .146 Mistral, Frédéric 1830-1914
- .149 Minor poetry

- 849.9 Catalan literature
- .91 Catalan poetry
- .911 1st period 1200-1350
Catalonia before 1137 ruled by French counts, then united to Aragon
Language is closely allied to Provençal, in which first poets wrote. Mss
scattered; few as yet printed. Literature begins with James I (1213-76)
who made Catalan the state language
For Ramon Muntaner see 849.9813
1 Raimon Lull 1225-1315 2 Febler 1250 9 Minor poets
- .912 2d period 1350-1450
Imitation of Neo Provençal, French and Italian, specially of Dante, Pe-
trarch and Boccaccio. Some flashes of originality. Fra Rocaberti. Imita-
tion of Dante
- .913 Age of perfection 1450-
From 16th century, Catalan literature merged in Spanish, tho some writers
still employ idiom, e. g. 'Balaguer'
1 March, Ausias -1460, greatest of Catalan poets 2 Fenolla, Bernard
3 Jaume Roig (satiric) 4 Farrer 5 Serafi 6 Pujol 7 Garcia
9 Minor poets
- .93 Catalan fiction
- .933 Age of perfection 1450-
Joanet Martorel -1400. *Tirant lo Blanch*, a chivalric romance
- .98 Miscellany
- .981 1st period 1200-1350
Prose superior to poetry. Chronicles of great importance, culminating in
Muntaner
1 James I (The Conqueror) 1213-76 2 Desclot, Bernardo 3 Mun-
taner, Ramon 1265-1340 4 Ximenes 9 Minor authors
- .982 2d period 1350-1450
Prose resists foren influences better than poetry. Many philosophic and
theologic writings beside historical works
1 Tomich 2 Turell 9 Minor writers

850 Italian literature

850.1 Philosophy .2 Compendis .3 Dictionaries .4 Essays, lectures and addresses on Italian literature .5 Periodicals .6 Societies .7 Study and teaching .8 Collections .9 History

851 Italian poetry

.02 Dramatic .03 Romantic and epic .04 Lyric, ballads .05 Didactic
.06 Descriptiv .07 Satiric and humorous .08 Collections .09 History
of Italian poetry

- .1 Early Italian Age of Dante -1375**
To deth of Boccaccio, 1375
- .11 Protonotario, Stefano -1250
.12 Arezzo, Guittone d' -1294
.13 Guiccelli, Guido -1276
.14 Cavalcanti, Guido 1260-1300
.15 Alighieri, Dante 1265-1321
.16 Pistoia, Cino da 1270-1336
.17 Uberti, Fazio degli -1369
.18 Petrarca, Francesco 1304-74
.19 Minor poets
- .2 Period of classic learning 1375-1492**
From deth of Boccaccio, 1375, to deth of Lorenzo il Magnifico, 1492
- .21 Frezzi, Federigo -1416
.22 Bojardo, Matteo 1430-94
.23 Medici, Lorenzo dei (Il Magnifico) 1448-92
.24 Poliziano, Angelo 1454-94
.25 Benivieni, Girolamo 1453-1542 See 852.22
.26 Sannazzaro, Jacopo 1458-1530
.29 Minor poets
- .3 Age of Leo the Tenth 1492-1542**
From deth of Lorenzo il Magnifico, 1492, to convocation of council of Trent, 1542
- .31 Bembo, Pietro 1470-1547
.32 Ariosto, Lodovico 1474-1533
.33 Rucellai, Giovanni 1475-1526
.34 Molza, Francesco 1483-1544 See 853.33
.35 Tasso, Bernardo 1493-1569
.36 Alamanni, Luigi 1495-1556
.37 Guidiccioni, Giovanni 1500-41
.38 Casa, Giovanni della 1503-56
.39 Minor poets
- .4 Later 16th century 1542-85**
From convocation of council of Trent, 1542, to pontificate of Sixtus 5, 1585
- .41 Costanzo, Angelo di 1507-91
.42 Rota, Bernardino 1509-75
.43 Tansillo, Luigi 1510-68
.44 Magno, Celio 1536-1602
.45 Guarini, Giovambattista 1537-1612
.46 Tasso, Torquato 1544-95
.47 Baldi, Bernardino 1553-1617
.49 Minor poets

851.5	Period of decline	1585-1748	
	From pontificate of Sixtus 5, 1585-90, to peace of Aix-la-Chapelle, 1748		
.51	Chiabrera, Gabriello		1552-1637
.52	Marini, Giovambattista		1569-1625
.53	Testi, Fulvio		1593-1646
.54	Filicaja, Vincenzo		1642-1707
.55	Guidi, Alessandro		1650-1712
.56	Manfredi, Eustachio		1674-1738
.57	Frugoni, Carlo Innocenzo		1692-1768
.58	Algarotti, Francesco		1712-64
.59	Minor poets		
.6	Period of renovation	1748-1814	
	From peace of Aix-la-Chapelle, 1748, to congress of Vienna, 1814		
.61	Paradisi, Agostino		1736-83
.62	Mascheroni, Lorenzo		1750-1800
.63	Pindemonte, Ippolito		1753-1828
.64	Monti, Vincenzo		1754-1828
.65	Cassi, Francesco		1778-1846
.66	Foscolo, Ugo		1779-1827
.67	Arici, Cesare		1782-1836
.68	Sestini, Bartolommeo		1792-1822
.69	Minor poets		
.7	Early 19th century	1814-59	
	From congress of Vienna, 1814, to war of Independence, 1859		
.71	Berchet, Giovanni		1783-1851
.72	Rossetti, Gabriello		1783-1854
.73	Manzoni, Alessandro		1785-1873
.74	Marchetti, Giovanni		1790-1852
.75	Leopardi, Giacomo		1798-1837
.76	Carrer, Luigi		1801-50
.77	Regaldi, Giuseppe		1809-83
.78	Prati, Giovanni		1815-84
.79	Minor poets		
.8	Later 19th century	1859-1900	
	From war of Independence, 1859, to 1900		
.81	Aleardi, Aleardo		1810-78
.82	Zanella, Giacomo		1820-88
.83	Gnoli, Domenico		1839-
.84	Carducci, Giosuè		1835-1907
.85	Fogazzaro, Antonio		1842-1911
.86	Rapisardi, Mario		1844-
.87	Guerrini, Olindo		1845-
.88			
.89	Minor poets		
.91	Early 20th century	1901-	

852 Italian drama

.1	Early Italian	Age of Dante	-1375	
.2	Period of classic learning	1375-1492		
.21	Belcari, Feo		1410-84	
.22	Poliziano, Angelo		1454-94	See 851.24
.29	Minor dramatists			

- 852.3 Age of Leo the Tenth 1492-1542**
- .31 Machiavelli, Niccolò 1469-1527 See also 854.31
 .32 Dovizi, Bernardo (Cardinal Bibbiena) 1470-1520
 .33 Trissino, Gian Giorgio 1478-1550
 .34 Aretino, Pietro 1492-1556
 .35 Ambra, Francesco d' -1558
 .39 Minor dramatists
- .4 Later 16th century 1542-85**
- .41 Speroni, Sperone 1500-88
 .42 Giraldi, G. B. Cinzio 1504-73 See also 853.44
 .43 Cecchi, Giovanni Maria 1517-87
 .44 Asinari, Federigo 1527-76
 .45 Porta, Giovambattista della 1538-1615
 .49 Minor dramatists
- .5 Period of decline 1585-1748**
- .51 Buonarroti, Michelangiolo jr 1564-1646
 .52 Rinuccini, Ottavio 1565-1622
 .53 Andreini, Giovambattista 1578-1650
 .54 Gigli, Girolamo 1660-1722
 .55 Zeno, Apostolo 1669-1750
 .56 Maffei, Scipione 1675-1755
 .57 Trapassi, Pietro (Metastasio) 1698-1782
 .59 Minor dramatists
- .6 Period of renovation 1748-1814**
 For Manzoni, see 851.73 and 853.72
- .61 Goldoni, Carlo 1707-73
 .62 Gozzi, Carlo 1722-1806
 .63 Capacelli Albergati, Francesco 1728-1804
 .64 Alfieri, Vittorio 1749-1803
 .65 Nota, Alberto 1775-1847
 .66 Biondi, Luigi 1776-1839
 .67 Benedetti, Francesco 1785-1821
 .69 Minor dramatists
- .7 Early 19th century 1814-59**
- .71 Niccolini, Giovambattista 1782-1861
 .72 Pellico, Silvio 1788-1854
 .73 Giacometti, Paolo 1816-81
 .74 Gherardi del Testa, Tommaso 1818-82
 .75 Ferrari, Paolo 1822-89
 .79 Minor dramatists
- .8 Later 19th century 1859-1900**
- .81 Bersezio, Vittorio 1830-1900
 .82 Cossa, Pietro 1833-82
 .83 Carrera, Valentino 1834-95
 .84 Marengo, Leopoldo 1831-99
 .85 Cavallotti, Felice 1842-98
 .86 Torelli, Achille 1844-
 .87
 .88
 .89 Minor dramatists
- .91 Early 20th century 1901-**

853 Italian fiction

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|-----|-----------------------------------|--|--------------|-----------------|
| .1 | Early Italian | Age of Dante | -1375 | |
| .11 | | "Cento Novelle Antiche" (Gualteruzzi's collection) | | |
| .12 | Barberino, Francesco da | | 1264-1348 | |
| .13 | Pisa, Guido da | | -1350 | |
| .14 | Gubbio, Bosone da | | | |
| .15 | Boccaccio, Giovanni | | 1313-75 | |
| .19 | Minor writers | | | |
| .2 | Period of classic learning | 1375-1492 | | |
| .21 | Sacchetti, Franco | | -1400 | |
| .22 | Fiorentino, Ser Giovanni | | | |
| .23 | Manetti, Antonio | | 1423-97 | |
| .24 | Mangabotti, Andrea dei | | | |
| .25 | Prato, Giovanni da | | | |
| .29 | Minor writers | | | |
| .3 | Age of Leo the Tenth | 1492-1542 | | |
| .31 | Salernitano, Masuccio | | | |
| .32 | Bandello, Matteo | | 1480-1561 | |
| .33 | Molza, Francesco | | 1483-1544 | See also 851.34 |
| .34 | Firenzuola, Agnolo | | 1493-1548 | |
| .39 | Minor writers | | | |
| .4 | Later 16th century | 1542-85 | | |
| .41 | Grazzini, Antonfrancesco (Lasca) | | 1503-83 | |
| .42 | Doni, Antonfrancesco | | 1513-74 | |
| .43 | Erizzo, Sebastiano | | 1525-85 | |
| .44 | Giraldi, G. B. Cinzio | | 1504-73 | See also 852.42 |
| .45 | Parabosco, Girolamo | | -1560 | |
| .49 | Minor writers | | | |
| .5 | Period of decline | 1585-1748 | | |
| .6 | Period of renovation | 1748-1814 | | |
| .7 | Early 19th century | 1814-59 | | |
| .71 | Rosini, Giovanni | | 1776-1855 | |
| .72 | Manzoni, Alessandro | | 1785-1873 | See also 851.73 |
| .73 | Grossi, Tommaso | | 1791-1853 | |
| .74 | Guerrazzi, Francesco Domenico | | 1804-73 | |
| .75 | Bresciani, Antonio | | 1798-1862 | |
| .76 | Cantù, Cesare | | 1807-95 | |
| .77 | Carcano, Giulio | | 1812-83 | |
| .78 | Azeglio, Massimo d' | | 1800-66 | |
| .79 | Minor writers | | | |
| .8 | Later 19th century | 1859-1900 | | |
| .81 | Castellazzo, Luigi | | 1827-90 | |
| .82 | Barrili, Anton Giulio | | 1836-1908 | |
| .83 | Capuana, Luigi | | 1839- | |
| .84 | Verga, Giovanni | | 1840- | |
| .85 | Faldella, Giovanni | | 1846- | |
| .86 | Farina, Salvatore | | 1846- | |
| .87 | Giovagnoli, Raffaele | | 1838- | |
| .88 | Serao, Matilde | | 1856- | |
| .89 | Minor writers | | | |
| .91 | Early 20th century | 1901- | | |

854 Italian essays

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|-----|-----------------------------------|-----------------------------|------------------|-----------------|
| .1 | Early Italian | Age of Dante | -1375 | |
| .11 | | Cavalca, Fra Domenico | -1342 | |
| .12 | | Passavanti, Fra Jacopo | -1357 | |
| .2 | Period of classic learning | | 1375-1492 | |
| .21 | | Alberti, Leone Battista | 1404-72 | |
| .22 | | Palmieri, Matteo | 1405-75 | |
| .23 | | Bisticci, Vespasiano da | 1421-98 | |
| .24 | | Collenuccio, Pandolfo | -1504 | |
| .25 | | Vinci, Leonardo da | 1452-1519 | |
| .29 | | Minor essayists | | |
| .3 | Age of Leo the Tenth | | 1492-1542 | |
| .31 | | Machiavelli, Niccolò | 1469-1527 | See also 852 31 |
| .32 | | Nardi, Jacopo | 1476-1555 | |
| .33 | | Castiglione, Baldassare | 1478-1529 | |
| .34 | | Guicciardini, Francesco | 1482-1540 | |
| .35 | | Giannotti, Donato | 1494-1573 | |
| .36 | | Giambullari, Pier Francesco | 1495-1555 | |
| .37 | | Gelli, Giovambattista | 1498-1563 | |
| .38 | | Varchi, Benedetto | 1503-66 | |
| .39 | | Minor essayists | | |
| .4 | Later 16th century | | 1542-85 | |
| .41 | | Castelvetro, Ludovico | 1505-71 | |
| .42 | | Piccolomini, Alessandro | 1508-78 | |
| .43 | | Borghini, Vincenzo | 1515-80 | |
| .44 | | Davanzati, Bernardo | 1529-1606 | |
| .45 | | Salviati, Leonardo | 1540-89 | |
| .46 | | Ammirato, Scipione | 1531-1601 | |
| .47 | | Paruta, Paolo | 1540-98 | |
| .48 | | Botero, Giovanni | 1540-1617 | |
| .49 | | Minor essayists | | |
| .5 | Period of decline | | 1585-1748 | |
| .51 | | Sarpi, Paolo | 1550-1623 | |
| .52 | | Galilei, Galileo | 1564-1642 | |
| .53 | | Bartoli, Daniele | 1608-85 | |
| .54 | | Dati, Carlo | 1619-75 | |
| .55 | | Gravina, Giovanni Vincenzo | 1664-1718 | |
| .56 | | Muratori, Ludovico Antonio | 1672-1750 | |
| .57 | | Giannone, Pietro | 1676-1748 | |
| .58 | | Zanotti, Francesco Maria | 1692-1777 | |
| .59 | | Minor essayists | | |
| .6 | Period of renovation | | 1748-1814 | |
| .61 | | Bettinelli, Saverio | 1718-1808 | |
| .62 | | Denina, Carlo | 1730-1813 | |
| .63 | | Tiraboschi, Girolamo | 1731-94 | |
| .64 | | Lanzi, Luigi | 1732-1810 | |
| .65 | | Beccaria, Cesare | 1735-93 | |
| .66 | | Filangeri, Gaetano | 1752-88 | |
| .67 | | Cesari, Antonio | 1760-1828 | |
| .68 | | Perticari, Giulio | 1779-1822 | |
| .69 | | Minor essayists | | |

854.7	Early 19th century	1814-59	
.71	Costa, Paolo		1771-1836
.72	Giordani, Pietro		1774-1848
.73	Troya, Carlo		1785-1859
.74	Balbo, Cesare		1789-1853
.75	Capponi, Gino		1792-1878
.76	Mamiani della Rovere, Terenzio		1800-85
.77	Gioberti, Vincenzo		1801-53
.78	Tommaséo, Niccolò		1802-74
.79	Minor essayists		
.8	Later 19th century	1859-1900	
.81	Sanctis, Francesco de		1818-83
.82	Bonghi, Ruggiero		1827-95
.83	Conti, Augusto		1822-1905
.84	Villari, Pasquale		1827-
.85	Ardigò, Roberto		1828-
.86	Comparetti, Domenico		1835-
.87	Zumbini, Bonaventura		1840-
.88	Panzacchi, Enrico		1841-1904
.89	Minor essayists		
.91	Early 20th century	1901-	
855	Italian oratory		
856	Italian letters		
857	Italian satire and humor		
.1	Early Italian	Age of Dante	-1375
.11	Gemignano, Folgore da San		
.12	Chitarra, Cene dalla		
.13	Angiulieri, Cecco		
.14	Pucci, Antonio		-1377
.19	Minor writers		
.2	Period of classic learning	1375-1492	
.21	Burchiello, Domenico		1395-1448
.22	Pulci, Luigi		1432-84
.23	Vinciguerra, Antonio		
.29	Minor writers		
.3	Age of Leo the Tenth	1492-1542	
.31	Folengo, Teofilo (Merlin Cocai)		1491-1544
.32	Berni, Francesco		1496-1535
.39	Minor writers		
.4	Later 16th century	1542-85	
.41	Nelli, Pietro		
.42	Beccuti, Francesco		1509-53
.43	Caporali, Cesare		1531-1601
.49	Minor writers		

LITERATURE

857.5	Period of decline	1585-1748	
.51	Tassoni, Alessandro		1565-1635
.52	Bracciolini, Francesco		1566-1645
.53	Lalli, Giovambattista		1572-1637
.54	Lippi, Lorenzo		1606-64
.55	Rosa, Salvatore		1615-73
.56	Menzini, Benedetto		1646-1704
.57	Sergardi, Ludovico		1660-1726
.58	Fortiguerra, Niccolò		1674-1735
.59	Minor writers		
.6	Period of renovation	1748-1814	
.61	Gozzi, Gasparo		1713-86
.62	Passeroni, Gian Carlo		1713-1803
.63	Casti, Giovambattista		1721-1803
.64	Parini, Giuseppe		1739-99
.65	Baretti, Giuseppe		1716-89
.66	Elci, Angelo Maria d'		1754-1824
.67	Pananti, Filippo		1766-1837
.69	Minor writers		
.7	Early 19th century	1814-59	
.71	Giusti, Giuseppe		1809-50
.8	Later 19th century	1859-1900	
.91	Early 20th century	1901-	

858 Italian miscellany

.8	Later 19th century	1859-1900	
.81	Gubernatis, Angelo de		1840-
.82	Amicis, Edmondo de		1846-1908

859 Wallachian literature

	.1 Poetry	.2 Drama	.3 Fiction	.4 Essays	.5 Oratory	.6 Letters
	.7 Satire and humor	.8 Miscellany				
.9	Rumansh literature					
	Subdivided like 859					

860 Spanish literature

860.1 Philology .2 Compendis .3 Dictionaries .4 Essays .5 Periodicals
 .6 Societies .7 Study and teaching .8 Collections .9 History

861 Spanish poetry

.02 Dramatic .03 Romantic and epic .04 Lyric, ballads .05 Didactic
 .06 Descriptive .07 Satiric and humorous .08 Collections .09 History
 of Spanish poetry

.1 Early Spanish -1369

In 711 the Visigothic kingdom, founded in the 5th century, was overthrown by Arabs: 711-1492 Arabic period or Age of reconquest
 Literature began in first half of 12th century. Earliest poetry, epic; subjects national, themes war and religion (861.11-12). These were followed by an erudite tendency toward classic tradition neglecting national themes (861.13 and .14) which were however revived toward the close of the period (861.15) by continued victories over Moors under Alfonso 11th, 1312-50, thereafter reaction again toward didactic (861.16). Under Alfonso the Wise, 1252-84, a general intellectual awakening, but leading to greater results in prose than in poetry. Thru him (1) Provençal (and Galician) and (2) Oriental influences were introduced. In Provençal literature chief attention was given to perfection of poetic form. The Oriental was didactic in content, symbolic in form.

.11 Primitiv monuments

.12 Poema de mio Cid

.13 Berceo, Gonzalo de 1196-1266

.14 Segura de Astorga, Juan Lorenzo 1250

.15 Yañez Ruy (Cronica del Rey Alfonso Onceno)

.16 Sem Tob, Rabbi 1350

.19 Minor poets

.2 Age of imitation 1369-1516

Henry 2d to Carlos 1st, Charles 5th of Germany. 1479, Union of Castile and Arragon. Under Ferdinand and Isabella all Spain was brought under one scepter. Provençal and didactic tendencies continue; a third element was Italian influence. There were 3 distinct schools:

1 Provençal, specially influential at court

2 Italian (Dante) or Allegoric, introduced by Francisco Imperial, a Genoese. (Mena, 861.22)

3 Didactic. A protest against the Italian school in behalf of national literary traditions. (Ayala, 861.21)

.21 Lopez de Ayala, Pedro 1332-1407

.22 Mena, Juan de 1411-56

.23 Mendoza, Iñigo Lopez de, Marqués de Santillana 1398-1458

.24 Manrique, Jorge 1440-79

.25 Los Cancioneros } Collections of poetry
 .26 Los Romances }

.27 Romancero del Cid

'Romances' popular poetry, peculiar to Spain, and generally anonymous period of production, from earliest times to 18th century. Golden Age during reign of Ferdinand and Isabella, a grand reawakening coming with the fall of Granada, 1492

.29 Minor poets

Golden age 1516-1700

Rule of House of Austria. Painting culminates in this period: Morales 1509-86; Coello 1515-90; Joanes 1523-79; The Herrera — 16th century; Ribera 1588-1656; Zurbaran 1598-1662; Velazquez 1599-1660; Cano 1601-67; Murillo 1618-82, etc. Fierce opposition to the Reformation intensified religious sentiment and produced a school of mystics. The sentiment of nationality became a dream of universal monarchy. The chivalric cult of woman was replaced by an exaggerated conception of female honor, the least suspicion of frailty being visited with death. Great number of poets. Nothing notable in epic; lyric very prominent; at first Italian influences more intensified, Petrarch the model. This movement, begun by Juan Boscan 1500(?)—1543, culminated in Garcilaso (861.31). The protest against this in favor of national traditions is best represented by Castillejo (861.32). Mendoza (861.36) represents a conciliation. A fusion of 2 schools follows in which the Italian wins the major influence. Thereafter appear 2 new schools:

- 1 Classic, opposed to the fusion and represented by Leon (861.33) and the Argensolas (861.34) and
- 2 Sicilian or Oriental (inspired specially by the Bible) of which Herrera (861.35) is standard bearer. First manifestations of 'bad taste' appear (founder of school, Alonso de Ledesma 1552-1623) represented by Gongora (861.37) which despite opposition (Rioja 861.38) produces rapid decadence. Bad taste consisted in artificialities, exaggerations, obscurities, etc.

.31	Vega, Garcilaso de la	1503-36
.32	Castillejo, Cristóbal de	1494-1596
.33	Leon, Luis Ponce de	1528-91
	Leon is equally important in prose	
.34	Los Argensolas: Lupercio	1563-1613
	Bartolomé Leonardo	1564-1631
.35	Herrera, Fernando de	1534-97
.36	Mendoza, Diego Hurtado de	1503-75
.37	Góngora y Argote, Luis de	1561-1627
.38	Rioja, Francisco de	1600-59
.39	Minor poets	

.4 18th century 1700-1800

At death of Carlos 2d (1700) war of succession resulted in firm establishment of house of Bourbon, which, with brief interruptions, has continued to rule. Spanish political importance lost. At opening of century complete decadence, 'bad taste' every where dominant. Attempts made to regenerate Spanish letters according to principles of French classicism. Little advance, however, till close of century, despite foundation of academies (Spanish academy, 1714) and doctrinal reform in French sense, proclaimed by Luzan (1702-54) in *La poetica*, etc. Thereafter a kind of revival. 3 schools formed:

- 1 Classic French. Moratin the elder (861.41); Cadalso (861.42); Yriarte (861.45) and Samaniego (861.44)
- 2 Antique national, protesting against introduction of French taste. Huerta (861.43)
- 3 Salamanca school, an attempt to reconcile the first 2, avoiding their extravagances and conserving what was good in each. Valdés (861.46); Iglesias (861.47); Cienfuegos (861.48); Moratin the younger (862.42) and Jovellanos (868.42). 'Prosaism' production of exaggerated opposition to Gongorism or 'bad taste' also characterizes period. Influence of French encyclopedism also manifest. Development of science checked by religious (Inquisition) and political despotism. Rich development of fables and apologues in verse. Samaniego (861.44) and Yriarte (861.45). In epic, complete poverty

.41	Moratin (the Elder), Nicolás Fernandez de	1737-80
.42	Cadalso, José de	1741-82
.43	Huerta, Vicente Antonio García de la	1734-87
.44	Samaniego, Félix María de	1745-1801
.45	Yriarte, Tomás de	1750-91
.46	Valdés, Juan Melendez	1754-1817
.47	Iglesias de la Casa, José	1748-91
.48	Cienfuegos, Nicasio Alvarez de	1764-1809
.49	Minor poets	

DECIMAL CLASSIFICATION

861.5 19th century 1800-1900

Abdication of Carlos 4th, 1808; Joseph 1st (Bonaparte) 1808-13. Ferdinand 7th restored. Salic law abrogated, opening succession to daughter Isabella. Carlist insurrections (upholding Salic law) queld. Isabella driven from throne by revolution 1868; 1870-73 Amadeo (Savoy house), 1873, Amadeo abdicates and republic proclaimed; monarchy restored with Alfonso 12th in 1875. Age, till close of Ferdinand's reign, very unfavorable to letters. Under Carlos 4th (1788-1808) despotism reintroduced and revolution followed. Policy of Ferdinand 7th, after restoration (1813-33), retrograde. An interregnum in letters. First real awakening with Espronceda (861.52). Same fluctuations as in previous period. Romantic school introduced by Zorrilla (861.53)

- .51 Quintana, Manuel José 1772-1857
- .52 Espronceda, José de 1810-42
- .53 Zorrilla y Moral, José 1817-90
- .54 Gutierrez, Antonio García 1812-84
- .55 Gil y Zárate, Antonio 1792-1861
- .56 Hartzembusch, Juan Eugenio 1806-80
- .57 *Minor poets*
- .59 *Minor poets*

.6 Early 20th century 1901-

862.01 *criticisms* Spanish drama

.2 *Age of imitation* 1369-1516

Evidences of existence of 'mysteries' but no remains

- .21 Enzina, Juan del (?)1468-1534
- .22 Vicente, Gil (?)1450-1536

.3 Golden age 1516-1700

Drama of this period is chief glory of Spanish letters; writers show a phenomenal fecundity (at 70 'Lope' had written 1500 dramas). 30,000 dramas composed by beginning of 18th century. At opening of period Church tried to check development of profane drama, placing nearly all in the *Index*. Torres Naharro (works pub. 1517) and Lope de Rueda (d. 1567) form transition from preceding period. Latter, reputed father of national theater. Lope de Vega (862.31) real founder. Drama culminates in Calderon (862.35); thereafter decadence

- .31 Vega Carpio, Lope Felix de 1562-1635
- .32 Castro y Belvis, Guillen de 1567-1621
- .33 Tellez, Gabriel (Tirso de Molina, pseud.) (?)1570-1648
- .34 Alarcon y Mendoza, Juan Ruiz de (?)1580-1639
- .35 Calderon de la Barca, Pedro 1600-81
- .36 Rojas y Zorrilla, Francisco de 1607-
- .37 Moreto y Cabaña, Agustin 1618-69
- .39 Minor dramatists

.4 18th century 1700-1800

Complete decadence of drama in last years of old monarchy. Revival in 18th century, following French classic drama. Culminates in Moratin the younger (862.42). Opposition of National school voiced in Huerta (861.43). Discussions provoke abundant productions, fecundity rather than merit characterizing mass of write. Comella (862.41) — Period of unrest; old ideas can not be re-established, new can not be naturalized. For Moratin the elder, see 861.41; Huerta, 861.43

- .41 Comella, Luciano Francisco 1716-79
- .42 Moratin, Leandro Fernandez de 1760-1828
- .43 Cruz, Ramon de la (Light comedies) 1731-95
- .49 Minor dramatists

.5 19th century 1800-1900

S02 Zorrilla (861.53), Gutierrez (861.54), and Rubi (862.52) represent 'romantic' movement in Spanish drama. For Gil y Zárate, see 861.55; Hartzembusch. 861.56

- .51 Martinez de la Rosa, Francisco 1789-1862
- .52 Rodriguez Rubi, Tomás 1817-90
- .53 Bretón de los Herreros, Manuel 1796-1873
- .59 Minor dramatists

.6 Early 20th century 1901-

.601 *contemporary dramatists*

LITERATURE

863 Spanish fiction *collections - short stories*

- .01 *criticism* *88*
 .2 Age of imitation 1369-1516
 Immense vogue of books of chivalry despite legislation till publication of *Don Quixote*; thereafter only one written. [First part of *Quijote* printed 1605]
- .21 Books of chivalry
 .22 Amadis de Gaula
 .23 *Celestina*
- .3 Golden age 1516-1700
 Real novel replaces old books of chivalry about 1500. 'Picaresca,' or 'rogue' novel characteristic of this period; a result of the state of society following wars of Charles 1st and Philip 2d, e. g. Mendoza's *Lazarillo de Tormes*. For Mendoza, see 861.36
- .31 Montemayor, Jorge de 1520-61
 .32 Cervantes Saavedra, Miguel de 1547-1616
 .39 Minor novelists
- .4 18th century 1700-1800
- .5 19th century 1800-1900
 For Bretón de los Herreros, see 862.53; and Rodriguez Rubí, 862.52
- .51 Larra, Mariano José de [Figaro] 1809-37
 .52 Mesonero y Romanos, Ramón de 1803-82
 .53 Arrom, Cecilia Boehl de [Fernan Caballero] 1797-1877
 .59 Minor writers
- .6 Early 20th century 1901-

864 Spanish essays

865 Spanish oratory

Hardly any forensic and little sacred eloquence. When language and culture advanced, privileges of Cortes restrained. Sacred eloquence less employed by Spanish church than by French or English. Gongorism or 'bad taste' conquers here as elsewhere

- .1 Early Spanish -1369
 .2 Age of imitation 1369-1516
 .3 Golden age 1516-1700
 For Luis de Leon, see 861.33; and Luis de Granada, 868.32
- .4 18th century 1700-1800
 For Jovellanos, see 868.42; and Valdés, 861.46
- .5 19th century 1800-1900
- .51 Olozaga, Salustiano de 1803-73
 .52 Castelar, Emilio 1832-99
- .6 Early 20th century 1901-

866 Spanish letters

- .3 Golden age 1516-1700
 Naturalness of old times changed with majestic court and rigid etliquet of Charles 5th. For Santa Teresa, see 868.33
- .31 Avila, Juan de 1502-69
 .32 Perez, Antonio 1549-1611
 .39 Minor writers

867 Spanish satire

- .1 Early Spanish -1369
Ruiz, Juan (Arcipreste de Hita) 1350
- .2 Age of imitation 1369-1516
Coplas de Mingo Revulgo
- .3 Golden age 1516-1700
Quevedo Villegas, Francisco Gomez de 1580-1645
- .4 18th century 1700-1800
For Cadalso, see 861.42; and Moratin the younger, 862.42
- .41 Jorge Pitillas (a pseudonym)
- .42 Isla, José Francisco de (el Padre) 1703-81

868 Spanish miscellany

- .1 Early Spanish -1369
- .11 Alfonso 10, el Sábido 1221-84
- .12 Sancho el Bravo (4th of Castile) 1258-95
- .13 Manuel, Juan 1282-1347
- .14 Alfonso 11 1310-50
- .19 Minor writers
- .2 Age of imitation 1369-1516
General and special histories, books of travel, works cald forth by Boccaccio's *Corvaccio*, etc.
- .3 Golden age 1516-1700
Didactic prose. Considerable development, tho less than poetry, owing in great mesure to political and religious restraints. 'Bad taste' manifests itself here as elsewhere. Luis de Granada, Santa Teresa, San Juan de la Cruz, Pedro de Rivadeneyra and Luis de Leon, representativs of Mystic school
For Luis de Leon, see 861.33; and Quevedo y Villegas, 867.3
- .31 Mariana, Juan de, founder of Spanish history 1536-1623
- .32 Granada, Luis de 1504-88
- .33 Teresa de Jesús, Santa 1513-82
- .34 Cruz, San Juan de la 1542-91
- .35 Rivadeneyra, Pedro de 1527-1611
- .36 Saavedra Fajardo, Diego de 1584-1648
- .39 Minor writers
- .4 18th century 1700-1800
Under Carlos 3d (1759-88) scientific studies took a fresh start, due largely to Feijóo, who attempted intellectual emancipation of Spain. Prose advances under French influence, Gallicisms introduced
- .41 Feijóo y Montenegro, Benito Jerónimo 1676-1764
- .42 Jovellanos, Gaspar Melchor de 1744-1811
- .49 Minor writers
- .5 19th century 1800-1900
For Hartzembusch, J E, see 861.56
- .51 Gayangos, Pascual de 1809-97
- .52 Rios, José Amador de los 1818-78
- .53 Milá y Fontanals, Manuel 1818-84
- .59 Minor writers
- .6 Early 20th century 1901-

869 Portuguese literature

- .1 Poetry .2 Drama .3 Fiction .4 Essays .5 Oratory .6 Letters
.7 Satire and humor .8 Miscellany

870 Latin literature

- .1 Philosophy .2 Compendis .3 Dictionaries, cyclopedias .4 Essays
 .5 Periodicals .6 Societies .7 Study and teaching .8 Collections .9 History
 of Latin literature

871 Latin poetry in general

See Dramatic, Epic and Lyric below

- .1 Lucretius Carus, Titus
 .2 Ovid (Publius Ovidius Naso)
 .3 Hyginus, Caius Julius
 .4 Faliscus, Gratius
 .5 Manilius, Marcus
 .6 Phaedrus
 .7 Lucilius Junior *Etna*
 .8

872 Latin drama

- .1 Andronicus, Livius
 .2 Naevius, Cnaeus
 .3 Plautus, Titus Maccius
 .4 Ennius
 .5 Terence (Publius Terentius Afer)
 .6 Seneca, Lucius Annaeus See also 878 5
 .7

873 Latin epic poetry

- .1 Virgil (Publius Virgilius Maro)
 .2 Lucanus, Marcus Annaeus
 .3 Flaccus, Caius Valerius
 .4 Silius Italicus, Caius
 .5 Statius, Publius Papinius
 .6

874 Latin lyric poetry

- .1 Catullus, Tibullus and Propertius
 .2 Catullus, Valerius
 .3 Tibullus, Albius
 .4 Propertius, Sextus Aurelius
 .5 Horace (Quintus Horatius Flaccus) See also 877.3
 .6 Calpurnius Siculus
 .7

- 875 Latin oratory
- .1 Cicero, Marcus Tullius: complete works
For Cicero's letters see 876.1
 - .2 Orations
 - .3 Rhetorical works
 - .4 Philosophic works See also 186.3
 - .5 Messala Corvinus, Marcus Valerius
 - .6 Quintilian (Marcus Fabius Quintilianus)
 - .7

- 876 Latin letters
- .1 Cicero, Marcus Tullius For his other works see 875.1-875.4
 - .2 Pliny (Caius Plinius Caecilius Secundus)
 - .3 Fronto, Marcus Cornelius
 - .4

- 877 Latin satire and humor
- .1 Lucilius, Caius
 - .2 Cato, Valerius
 - .3 Horace See 874.5
 - .4 Persius Flaccus, Aulus
 - .5 Petronius Arbiter, Caius
 - .6 Martial (Marcus Valerius Martialis)
 - .7 Juvenal (Decimus Junius Juvenalis)

- 878 Latin miscellany
- .1 Caesar, Caius Julius
 - .2 Sallust (Caius Sallustius Crispus)
 - .3 Nepos, Cornelius
 - .4 Livy (Titus Livius Patavinus)
 - .5 Seneca, Lucius Annaeus See also 872.6 and 188.6
 - .6 Tacitus, Caius Cornelius
 - .7 Suetonius Tranquillus, Caius
 - .8 Curtius Rufus, Quintus
 - .9 Minor writers

879 Medieval and modern Latin

Subdivided like 820. .1 Poetry .2 Drama .3 Fiction .4 Essays .5 Oratory
.6 Letters .7 Satire and humor .8 Miscellany

best mss. give
Publius Co

880 Greek literature

Classic literature

- .1 Philosophy .2 Compendis .3 Dictionaries .4 Essays on Greek literature
 .5 Periodicals .6 Societies .7 Study and teaching .8 Collections .9 History
 of Greek literature

881 Greek poetry in general

See Dramatic, Epic, and Lyric, below

- .1 Theognis
 .2 Aratus
 .3 Lycophron
 .4 Babrius

882 Greek dramatic poetry

- .1 Æschylus
 .2 Sophocles
 .3 Euripides
 .4 Aristophanes
 .5 Epicharmus
 .6 Menander

883 Greek epic poetry

- .1 Homer
 .2 Hesiod
 .3 Apollonius Rhodius
 .4 Oppian
 .5 *Orphic poems*

884 Greek lyric poetry

- .1 Tyrtaeus
 .2 Sappho
 .3 Anacreon
 .4 Simonides of Ceos
 .5 Pindar
 .6 Theocritus
 .7 Bion
 .8 Callimachus
 .9 Minor Greek lyric poets

- 885 Greek oratory
- .1 Andocides
 - .2 Lysias
 - .3 Isaeus
 - .4 Isocrates
 - .5 Æschines
 - .6 Demosthenes
 - .7 Hyperides
 - .8 Lycurgus
 - .9 Minor Greek orators
- 886 Greek letters
- .1 Themistocles
 - .2 Alciphron
 - .3 Phalaris
- 887 Greek satire and humor
- For comedies of Aristophanes see 882.4
- .1 Archilochus
 - .2 Simonides of Samos
 - .3 Hipponax
- 888 Greek miscellany
- .1 Herodotus
 - .2 Thucydides
 - .3 Xenophon
 - .4 Plato See also 184.1 Platonic philosophy
 - .5 Aristotle See also 185.1 Aristotelian philosophy
Or if preferred, the works of Plato and Aristotle may be put in 184.1 and 185.1
 - .6 Æsop
 - .7 Lucian
 - .8 Plutarch See also 186.2
 - .9 Minor writers
- 889 Medieval and modern Greek
- .1 Poetry .2 Drama .3 Fiction .4 Essays .5 Oratory .6 Letters
 - .7 Satire and humor .8 Miscellany
- 890 Literature of minor languages
- Subdivided like 490, Philology of minor languages. If wish 1 Poetry; 2 Drama, etc., can be used after the language number; e. g. Russian drama is 891.72, Hebrew poetry 892.41, Bengali poetry 891.441

See p. 932, for Literature of minor Languages

History

900 History in general

901-909 all have *History in general* as their subject, but it is treated in these various forms. A periodical on English history goes with 912, not 905, which is only for periodicals on history in general. Naught (0) in any class number in any part of the classification shows the subject to be general, not specific

- 901 Philosophy, theories, etc. History of civilization
- 902 Compendis, chronologies, charts, outlines
For chronology as a science, see 529
- 903 Dictionaries, cyclopedias, etc.
- 904 Essays, lectures, addresses
- 905 Periodicals, historical magazines
- 906 Societies, transactions, etc.
- 907 Education, methods of teaching, writing, etc.
See also 371.3
- 908 Polygraphy, collected works, extracts, etc.
- 909 Universal and general modern histories

For general Ancient histories, see 930

.1 A. D. 476-1199	.5 1500-1599
.2 1200-1299	.6 1600-1699
.3 1300-1399	.7 1700-1799
.4 1400-1499	.8 1800-1899

9.1900 —

910 Geografy and travels

Including topografy, maps, antiquities, descriptions, etc.

For map projection, see 526.9. See also 310 Statistics, 390 Customs and costumes

For directories, guidebooks, gazetteers, etc. of special countries or geographic sections see under those sections, 914-919

- .1
- .2 Traveler's manuals, guidebooks
- .3 Dictionaries, gazetteers
- .4 Circumnavigations, ocean travel, shipwrecks and disasters, piratic adventures
- .5 Periodicals
- .6 Societies
- .7 Study and teaching of geografy: school map drawing
For primary teaching of geografy see 372.89
- .8 Collections of travels, etc.
- .9 History of geografy, travels, explorations, etc.

- 911 Historic Growth and changes in political divisions, etc. Subdivided like 930-999
- 912 Maps, atlases, plans of cities, etc.
Subdivided like 930-999
- 913 Antiquities, archeology, of special countries
See also 220.93 Biblical antiquities; 340.3 Legal antiquities; 571 Prehistoric archeology; 930 Ancient history; 390 Special customs. 913 is divided like 930-999. Note that this 3 is not the ancient history 3. Keltic antiquities are 913.36, not 913.6, which is African
- 914 Europe
915 Asia
916 Africa
917 North America
918 South America
919 Oceanica and Polar regions
- 920 **Biography**

914-919 is subdivided like 940-999. Whenever these main geographic headings occur they may be subdivided exactly like History. The full list of subheads is printed only under 940-999. In assigning numbers to travels, use the history tables, *insert 1 after the initial 9*, and move the decimal point; e. g. Guide to N. Y. city is 917.471, for N. Y. city in history tables is 974.71

Including autobiography, diaries, personal narratives, eulogies, biographic dictionaries, etc. All biography is here grouped together under the main classes, and subdivided in the same way with the variations indicated below for Philosophy, Theology, and Sociology, i. e. the biography of science is divided like science itself, see 500-599. Lives of chemists are 925.4; of botanists, 925.8; of sailors, 926.56; of actors, 927.92; of the inventor of hard rubber, 926.78, etc. The rule is to give each life the number of the subject it illustrates most, or to the student of which it will be most useful. Another plan is to scatter biography with the other books, leaving 920-928 blank, or using them only for general works, cross references, etc. This simply omits the first 2 figures 92, and the life of a botanist is 580 instead of 925.8, and goes with botanic books

Lives which will not go under any head without 'forcing' are best put in a single alphabet under the 3 figures 920 for men and under 920.7 for women

General and collective by localities

Including only collected lives too general to go under any subject heading

- .01 Universal
.02 Partial collections not limited to any special country or subject
.03 Ancient
.04 Of Europe
.05 " Asia
.06 " Africa
.07 " North America
.08 " South America
.09 " Oceanica

- 920 Individual and collectiv by subjects
- .1 Bibliografers
 - .2 Librarians
 - .3 Encyclopedists
 - .4 Publishers Booksellers
 - .5 Journalists
 - .6 Academicians
 - .7 Women Collected, and individual lives not clearly going with any subject
 - .8 Eccentrics, cranks, fools, insane, etc. See also 132.1 Insanity
 - .9 Other special classes not included in 921-928, e. g. phrenologists, somnambulists, mindreaders, magicians, etc.
- 921 Of filosofy
- .1 American
 - .2 English Scotch
 - .3 German
 - .4 French
 - .5 Italian
 - .6 Spanish
 - .7 Slavic
 - .8 Scandinavian and other modern
 - .9 Ancient Oriental Patristic Scholastic See 180-189
- 922 Of religion: clergy, missionaries, preachers
- 922.1-922.88 may be subdivided for nationality like 930-999
- .1 Primitiv apostles, fathers, etc. oriental, Greek, Russian
See 225.92 New Testament biografy
 - .2 Roman catholic: popes, cardinals, etc.
 - .21 Lives of popes
 - .3 Anglican and protestant episcopal
 - .4 Continental protestant: Lutheran, Huguenot
 - .5 Presbyterian and congregational
 - .6 Baptist Immersionist
 - .7 Methodist
 - .8 Unitarian, universalist and other
 - .81 Unitarian Universalist
 - .84 New church or Swedenborgian
 - .85 Christian science
 - .86 Quaker
 - .87 Mennonite
 - .88 Shaker
 - .89 Other minor Christian sects

- 922.9 Ethnic and other
 .91 Atheists
 .92
 .93
 .94 Brahman Buddhist
 .95 Parsee
 .96 Jews
 .97 Mohammedan
 .98 Mormon
 .99 Minor nonchristian religions

923 Of sociology

923.1-923.8 may be subdivided for nationality, as in 930-999; e. g. the life of an English king is 923.142; of a Russian czar, 923.147; of a Chinese general, 923.551

- .1 Chief rulers: kings, queens, emperors, presidents
 .2 Political science: legislativ dep't, governors, politicians, statesmen, nobles, etc. . For slaves, see 326.92
 .3 Political economy: bankers, capitalists, financiers
 .4 Law: judiciary dep't, lawyers, judges
 .41 Criminals
 .5 Administration: army and navy, civil servis
 .6 Associations and institutions Philanthropists, etc.
 .7 Education: teachers, school offisers, educators
 .8 Commerce and communication: railway officials, merchants, etc.
 .9 Manners and customs: society, travelers, discovery

- 924 Of philology
 925 " science
 926 " useful arts
 927 " fine arts
 928 " literature

See note under 920 about subdividing. It is seldom wise to use more than 4 figures, unless in a large special collection; e. g. in a music library, lives of pianists may be separated as 927.86. Professors known as special-ists go with the subject taught rather than with teachers; e. g. a professor of geology 925.5; but if more prominent as an educator than as a geologist he goes in 923.7

In adding figures for the subdivisions of literature, as in 810-899, class historians with miscellaneous authors as 8; i. e. Gibbon's life is 928.28; 928.31 is life of a German poet, and 928.691 is life of a Portuguese poet

- 929 **Genealogy and heraldry**
- .1 **Genealogies**
 - .2 Families
 - .3 Registers of births, baptisms, marriages, deaths
 - .4 Names of persons and places
 - .5 Epitaphs
 - .6 **Heraldry**
 - .7 **Peerage, precedence, titles of honor** **Royal houses**
 - .71 **Orders of Knighthood**
 - .711 St John of Jerusalem
 - .712 Templars
 - .713 Teutonic knights
 - .714 Garter
 - .715 Golden Fleece
 - .716 Holy Ghost
 - .717
 - .718
 - .719
 - .72 **Great Britain and Ireland**
 - .721 Peerage **Royal houses**
 - .722 Baronetage
 - .723 Knightage
 - .724 Dignities, precedence
 - .725 Landed gentry
 - .726 Visitations Alfabeted by counties
 - .73 **Germany**
 - .74 **France**
 - .75 **Italy**
 - .76 **Spain**
 - .77 **Russia**
 - .78 **Scandinavia**
 - .79 **Minor countries**
Divided like 949; minor countries outside Europe are put together in 929.799
 - .8 **Coats of arms, crests**
 - .9 **Flags**

930 **Ancient history** 476 A.D.

- 931 China
- 932 Egypt
- 933 Judea
- 934 India

- 935 Medo-Persia
 .1 Chaldea
 .2 Assyria Nineveh
 .3 Media
 .4 Babylonia
 .5 Persia
 .6 Parthia
 .7 New Persian or Sassanian
 .8 Mesopotamia
 .9 Susiana

936 Kelts

937 Rome Italy

Period divisions

.01	Kings	753-509	B. C.
.02	Republic	509- 31	"
.03	Conquest of Italy	509-264	"
.04	Punic wars	264-146	"
.05	Civil strife	146- 31	"
.06	Empire	31 B. C.-476	A. D.
.07	Constitutional	31 " -284	"
	Augustus—Illyrian emperors		
.08	Absolute	284-476	"
.09	Division of empire	395-476	"
	Barbarian conquests and fall of western empire		

Geografic divisions

- .1 Liguria
 .2 Gallia Cisalpina
 .3 Venetia Istria
 .4 Umbria Picenum Sabini, etc.
 .5 Etruria
 .6 Latium, Rome
 .7 Southern Italy: Campania, Samnium, Apulia, etc.
 .8 Sicily, Syracuse
 .9 Sardinia Corsica

938 Greece

Period divisions

.01	Mythical age	-776	B. C.
.02	Growth of states	775-500	"
.03	Persian wars Union of Greece	500-479	"
.04	Athenian supremacy	479-431	"
.05	Peloponnesian war	431-404	"
.06	Spartan and Theban supremacy	404-362	"
.07	Macedonian supremacy	362-323	"
.08	Roman conquest of Greece	323-146	"
.09	Greek subjection	146 B. C.-323	A. D.
	Byzantine empire is class 949.5		

Geografic divisions of Greece

- 938.1 Macedonia
 .2 Thessaly Epirus
 .3 Acarnania Ætolia Locris Doris Phocis Ithaca
 .4 Boeotia Megaris Euboea
 .5 Attica
 6 Peloponnesus
 .7 Corinthia Achaia
 .8 Elis Arcadia Argolis
 .9 Messenia Laconia Sparta

939 Minor countries

- .1 Grecian archipelago
 .11 Northern islands: Thasos, Lemnos, etc. .12 Lesbos .13 Chios,
 etc. .14 Samos, etc. .15 Cyclades .16 Rhodes, etc.
 .17 Carpathos .18 Crete
 .2 Western Asia Minor
 .21 Mysia, Troas .22 Lydia .23 Ionia .24 Caria
 .25 Bithynia .26 Phrygia .27 Pisidia .28 Lycia
 .29 Pamphylia
 .3 Eastern Asia Minor
 .31 Paphlagonia .32 Galatia .33 Pontus .34 Cappadocia
 .35 Cilicia .36 Commagene .37 Cyprus
 .4 Syria
 .41 Upper Syria .42 Coele Syria .43 Palmyra .44 Phenicia,
 Tyre .45 Palestine: Hittites, Philistines, etc. .46 Edom.
 Moab, Bashan, etc. .47 Arabia .48 Arabia Petraea, Sinai
 .5 Northwestern Asia
 .51 Scythia .52 Sarmatia Asiatica .53 Colchis .54 Iberia
 .55 Armenia .56 Albania
 .6 South Central Asia
 .61 Sogdiana .62 Hyrcania .63 Margiana .64 Bactriana
 .65 Ariana
 .7 Minor African countries
 .71 Mauritania .72 Numidia .73 Africa Propria, Carthage
 .74 Syrtica Regio .75 Cyrenaica .76 Marmarica .77 Libya,
 Gaetulia .78 Ethiopia
 .8 Southeastern Europe
 .81 Sarmatia Europa .82 Dacia .83 Vindelicia .84 Rhaetia
 .85 Noricum .86 Pannonia .87 Illyria .88 Moesia
 .89 Thracia

Modern history

940 Europe

From fall of the Western empire (Rome) A. D. 476

- See
940.1-1.17*
- .I **Medieval Europe** 476-1453
 - For Byzantine empire see 949.5
 - .II **Rise of new nations** 476- 800
 - .I4 **Age of feudalism** 800-1100
 - See also 321.3 Feudalism (Political science)
 - Charlemagne 768-814
 - Norman conquests
 - .I7 **Age of chivalry** 1100-1453
 - To fall of Eastern empire (Constantinople) 1453
 - .I8 **Crusades** 1096-1270
 - See also church history. 270.4-1.5
 - .181 1st crusade 1096 (Peter the Hermit)
 - .182 2d " 1147 (St Bernard)
 - .183 3d " 1190 (Richard Coeur de Lion)
 - .184 4th " 1202 (Baldwin of Flanders)
 - .185 5th " 1212 (Children's crusade)
 - .186 6th " 1217 (Capture of Jerusalem)
 - .187 7th " 1228
 - .188 8th " 1248 (St Louis)
 - .189 9th " 1270 "
 - .2 **Modern Europe** 1453-
 - .21 **Renaissance period** 1453-1517
 - Discoveries and inventions
 - .22 **Age of the reformation** 1517-1789
 - .23
 - .24 30 years war 1618-48
 - .25
 - .26
 - .27 **Napoleonic period** 1789-1815
 - .28 **19th century** 1815-1914
 - .29
 - .3 **Great war** 1914-19
 - .31 Political history
 - .311 Causes
 - .312 Efforts to preserv peace
 - See also 940.32 Diplomatic history
 - .313
 - .314 Results: terms of peace

MODERN HISTORY

.940.315

Relations of special classes

Subdivided like the classification, using 9 for refugees, divided like 940-999 by country of origin. For classes not thus provided for see 940.316

2

Clergy Church

Subdivide .3152-28 like 280, but use .315239 for sects in 289; e. g.

.31521 Greek catholic church

22 Roman " " Pope

2895 Christian scientists

Use .31529 like 290; e. g.

.315296 Jews

297 Mohammedans Holy war

.316

Other special classes

1

Noncombatants

2

Pacifists

3

Enemy sympathizers

.317

.318

Relations of special interests Aspects

Divided generally like the classification

.32

Diplomatic history

See also 940.31-314 Political history

.33

Groups of countries: allies and neutrals

As a body; for individual countries see 940.34-39

.332

Entente

.334

Teuton allies, Central powers

.335

Neutrals

.34-39

Individual countries

Divided like 940-999

Under each country farther subdivision may be made with the following numbers, if its part in this war is class here instead of with the rest of its history:

01 Political history Causes

02 Diplomatic "

03 Local (states, counties provinces, cities)

04 Military organization

Class operations in 940.4

05 Aspects: economic and other

06 Celebrations

07 Prisons, etc.

08 Personal narrative

09 Illustrative

.4

Military history

.405

Frightfulness, atrocities

As military expedient. For other relations see Atrocities in Relative index. But, since the avowed policy of one group of belligerents was 'frightfulness', it pervades all literature of this war.

.41

Land operations

.42-43

Special campaigns and battles

.44

Air warfare

.45

Naval history

.46

Celebrations, commemorations

Usually better class with event commemorated. For American patriotic societies of this war, see 369.186

.461

War meetings

.462

.463

Flag presentations

.464

Decorations: presentation

- 940.465 **Monuments, memorials**
 General, of the war or a country's part in it; but class memorials of a special event with that event
- 4-9 **By country** Divided like 940-999
- .467 **Rolls of honor** Lists of ded
- .468
- .47 **Prisons, hospitals, charities**
- .471
- .472 **Prisons**
 Divided like 940-999 and including internment camps
- .473 **Exchange of prisoners**
- .474
- .475 **Medical department, surgeons, nurses**
 See also 616 and 617
- 4-9 **By country maintaining** Divided like 940-999
- .476 **Hospitals, hospital sketches**
- 34-39 **By country in which located** Divided like 940-999
- 4-9 **By country maintaining** " " "
- .477 **Welfare work**
- 1 **Red Cross**
- 2 **Salvation Army**
- 3 **Y M C A**
- 4 **Y W C A**
- 5 **Knights of Columbus**
- 6 **Young Men's Hebrew ass'n**
- 7 **Other: college units, etc.**
- 8 **By country conducting** Divided like 940-999
- 9 **By country in which conducted** Divided like 940-999
- .478 **Religious life, chaplains, etc.**
- .48 **Personal narrativs, secret servis**
 When relating to some special battle or event, class with subject
- .481 **Entente allies**
- .482 **Central powers**
- .483 **Army life, Entente allies**
- .484 " **Central powers**
- .485 **Secret servis, spies**
- .486
- .487 **German secret servis**
- .488
- .489
- .49 **Illustrativ material**
 Subdivided like 973.79
 For special collections; but most material should be class with its subject: poetry, drama, etc. with the literatures to which they belong
- .5 **Later 20th century**
 Including works on 20th century as a whole

DECIMAL CLASSIFICATION

94I Scotland

Period divisions

.01	Gaelic period	-1097
.02	English period	1097-1314
	Struggle for national freedom	
.03	Independent kingdom	1314-1424
.04	The Jameses	1424-1557
.05	Reformation	1557-1603
.06	Union of crowns and parliaments	1603-1707
.07	Hanover	1707-1837
.08	Later Hanoverian	1837-
.09		

Geografic divisions

.1	Northern Scotland			
	.11 Shetland	.12 Orkney	.13 Caithness	.14 Sutherland
	.15 Cromarty	.16 Ross	.17 Hebrides	
.2	North central Scotland			
	.21 Inverness	.22 Nairn	.23 Elgin	.24 Banff
	.25 Aberdeen	.26 Kincardine		
.3	South central Scotland			
	.31 Forfar	.32 Perth	.33 Fife	.34 Kinross
	.35 Clackmannan	.36 Sterling	.37 Dumbarton	.38 Argyll
	.39 Bute			
.4	Southern Scotland			
	.41 Renfrew	.42 Ayr	.43 Lanark	.44 Linlithgow, Edinburgh
	.45 Haddington, Berwick	.46 Peebles, Selkirk		
	.47 Roxburgh	.48 Dumfries	.49 Kirkcudbright, Wigton	

94I.5 Ireland

Period divisions

.51	Early history	-1086
.52	Separate kingdoms	1086-1172
	Conquest by Henry 2	
.53	Plantagenet	1172-1399
.54	Lancaster and York	1399-1485
.55	Tudors	1485-1603
.56	Stuarts	1603-91
	Closing with treaty of Limerick	
.57	Hanover	1691-1801
	Closing with the union	
.58	19th century	1801-1900
.59I	Early 20th century	

Geografic divisions of Ireland

- 941.6 **Ulster**
 .61 Antrim .62 Londonderry .63 Donegal .64 Tyrone
 .65 Down .66 Armagh .67 Monaghan .68 Fermanagh
 .69 Cavan
- .7 **Connaught**
 .71 Leitrim .72 Sligo .73 Mayo .74 Galway .75 Roscommon
- .8 **Leinster**
 .81 Longford, West Meath .82 Meath, Louth .83 Dublin
 .84 Wicklów .85 Kildare .86 King's co. .87 Queen's co.
 .88 Carlow, Wexford .89 Kilkenny
- .9 **Munster**
 .91 Waterford .92 Tipperary .93 Clare .94 Limerick
 .95 Cork .96 Kerry

942 **England**

Including works on Great Britain

Period divisions

For specially minute work the 6th figure printed for each sovereen may be used; e. g. Henry 7 is 942.051

- .01 **Anglo-Saxon** B. C. 55-A. D. 1066
 Prehistoric, Roman, British, Danish
- .02 **Norman** 1066-1154
 1 William 1 1066-87 2 William 2 1087-1100 3 Henry 1
 1100-35 4 Stephen 1135-54
- .03 **Plantagenet** 1154-1399
 1 Henry 2 1154-89 2 Richard 1 1189-99 3 John 1199-1216
 4 Henry 3 1216-72 5 Edward 1 1272-1307 6 Edward 2
 1307-27 7 Edward 3 1327-77 8 Richard 2 1377-99
- .04 **Lancaster and York** 1400-85
 Wars of the roses 1455-85 (Lancaster, red; York, white)
 1 Henry 4 1399-1413 2 Henry 5 1413-22 3 Henry 6
 1422-61 4 Edward 4 1461-83 5 Edward 5 1483 6 Richard 3 1483-85
- .05 **Tudor** 1485-1603
 1 Henry 7 1485-1509 2 Henry 8 1509-47 3 Edward 6
 1547-53 4 Mary 1553-58 See also 272.6 5 Elizabeth 1558-1603
 See also 272.7
- .06 **Stuart** 1603-1714
 1 James 1 1603-25 2 Charles 1 1625-49 3 Commonwealth
 1649-53 4 Oliver Cromwell 1653-58 5 Richard Cromwell
 1658-59 6 Charles 2 1660-85 7 James 2 1685-88 8 William
 3 1689-1702 9 Anne 1702-14
- .07 **Hanover** 1714-1837
 1 George 1 1714-27 2 George 2 1727-60 3 George 3 1760-
 1820 4 George 4 1820-30 5 William 4 1830-37
- .08 **Later Hanoverian** 1837-
 1 Victoria 1837-1901 2 Edward 7 1901-10 3 George 5 1910-

DECIMAL CLASSIFICATION

Geografic divisions

- 942.1 **Middlesex** **London**
- .2 **Southeastern**
 .21 Surrey .23 Kent .25 Sussex .27 Hants .28 Isle of
 Wight .29 Berks
- .3 **Southwestern**
 .31 Wilts. .33 Dorset .34 Channel ilands .35 Devon .37 Corn-
 wall .38 Somerset
- .4 **West Midland**
 .41 Gloucester .43 Monmouth .44 Hereford .45 Salop
 .46 Stafford .47 Worcester .48 Warwick
- .5 **North and South Midland**
 .51 Derby .52 Notts .53 Lincoln .54 Leicester, Rutland
 .55 Northampton .56 Huntington, Bedford .57 Oxford, Buck-
 ingham .58 Hertford .59 Cambridge
- .6 **Eastern**
 .61 Norfolk .64 Suffolk .67 Essex
- .7 **Northwestern and Yorkshire**
 .71 Cheshire .72 Lancashire .74 Yorkshire
- .8 **Northern**
 .81 Durham .82 Northumberland .85 Cumberland .88 West-
 moreland .89 Isle of Man
- .9 **Wales**
 .91 Anglesey .92 Carnarvon, Merioneth .93 Denbigh, Flint
 .94 Montgomery .95 Cardigan .96 Radnor, Brecknock
 .97 Glamorgan .98 Carmarthen .99 Pembroke

943 Germany and Austria

Period divisions

- .01 **Formative period**
 Wars with Rome Charlemagne 800-814 Louis I 814-840
 Lothaire I 840-843
- .02 **Empire before the reformation**
 1 **Carolingian** 843-911: Louis 2 843-876 Charles 2 876-877
 Charles 3 877-887 Arnulf 887-899. Louis 3 900-911
 2 **House of Franconia**: Conrad I 911-918 **House of Saxony**,
 919-1024: Henry I 919-936 Otto I 936-973 Otto 2 973-983
 Otto 3 983-1002 Henry 2 1002-24
 3 **House of Franconia** 1024-1125: Conrad 2 1024-39 Henry 3
 1039-56 Henry 4 1056-1106 Henry 5 1106-25 **House of**
Saxony: Lothaire 2 1125-37
 4 **House of Hohenstaufen** 1137-97: Conrad 3 1138-52 Fred-
 erick I 1152-90 Henry 6 1190-97
 5 **House of Hohenstaufen** and **Interregnum** 1198-1272: Philip
 1198-1208 Otto 4 1208-12 Frederick 2 1212-50 Conrad 4
 1250-54 William of Holland 1254-56 Richard of Cornwall
 1256-72
 6 **Houses of Hapsburg, Luxemburg, etc.** 1273-1378: Rodolph I
 1273-91 Adolphus 1291-98 Albert I 1298-1308 Henry 7
 1308-13 Louis 4 1313-47 Charles 4 1347-78
 7 **Interregnum** 1378-1437: Wenceslaus 1378-1400 Rupert
 1400-10 Sigismund 1410-37
 8 Albert 2 1438-39 Frederick 3 1440-93
 9 Maximilian I 1493-1519
- .03 **Reformation to 1618** 1517-1618
 1 Charles 5 1519-1556 2 Ferdinand I 1556-64 3 Maxi-
 milian 2 1564-76 4 Rodolph 2 1576-1612 5 Matthias
 1612-19
- .04 **Disintegration** 1618-1705
 1 Thirty years' war 1618-48 2 Ferdinand 2 1619-37 3 Fer-
 dinand 3 1637-57 4 Leopold I 1658-1705
- .05 **Rise of Prussia** 1705-89
 1 Joseph I 1705-11 2 Charles 6 1711-40 3 1740-42
 4 Charles 7 1742-45 5 Francis I 1745-65 6 *Seven years war*
 1756-63 7 Joseph 2 1765-90
- .06 **Napoleonic wars** 1789-1815
 Leopold 2 1790-92 Francis 2 1792-1806 **Confederation of**
the Rhine 1806-15
- .07 **Reorganization** 1815-66
- .08 **New German empire** 1866-1918
 1 **North German confederation** 1866-71 2 **Franco-German war**
 1870-71 3 William I 1871-88 4 Frederick 1888 Wil-
 liam 2 1888-1918 ; **Great war** 1914-19 and downfall of empire
- .085 **German republic** 1918-

DECIMAL CLASSIFICATION

Geografic divisions of Germany and Austria

943.1

Prussia and Northern Germany

By peace of Versailles, 1919, most of Posen (.13) and parts of East Prussia (.11) of West Prussia (.12) and Silcsia (.14) were restored to Poland. Danzig (.12) as port of Poland made free city with 729 sq. mi. of territory

- .11 East Prussia .12 West Prussia, Danzig .13 Posen
.14 Silesia .15 Brandenburg .16 Pomerania .17 Meck-
lenburg and Lubeck .18 Prussian Saxony .19 Anhalt

.2

Central Germany

- .21 Saxony .22 Thuringia .23 Saxe-Weimar .24 Saxe-
Altenburg .25 Saxe-Gotha-Coburg .26 Saxe-Meiningen
.27 Schwartzburg .28 Reuss

.3

Bavaria

- .31 Upper Franconia .32 Middle Franconia .33 Lower
Franconia .34 Upper Palatinate .35 Lower Bavaria
.36 Upper Bavaria .37 Suabia

.4

Southern Germany

In 1919 by peace of Versailles 382 sq. mi. of Rhenish Prussia (.42) including Moresnet, Malmédy and Eupen were ceded to Belgium, and 783 sq. mi. of Saar valley to France subject to plebiscit in 1934. Alsace (.44) and Lorraine (.45) taken from France in 1871 were restored. See 944.38

- .41 Hesse Darmstadt .42 Rhenish Prussia .43 Rhenish
Bavaria .44 Alsace .45 Lorraine .46 Baden .47 Wurtem-
burg .48 *Black Forest and Danube* .49 Hohenzollern

.5

Northwest Germany

By peace of Versailles in 1919 part of Schleswig-Holstein (.51) was restored to Denmark

- .51 Schleswig-Holstein and Hamburg .52 Oldenburg and
Bremen .53 Hanover .54 Brunswick .55 Lippe .56 West-
phalia .57 Waldeck .58 Hesse-Nassau

.6 Austria

By peace of Versailles, 1919, Italia Irredenta, i. e. Tyrol (.64) Istria (.68) and part of Dalmatia (.69) were ceded to Italy; the rest of Dalmatia and all Carniola (probably) to Jugoslavia

- .61 Lower Austria .62 Upper Austria .63 Salzburg .64 Tyrol
.65 Styria .66 Carinthia .67 Carniola .68 Istria .69 Dal-
matia

.7 Czechoslovakia

- .71 Bohemia .72 Moravia .73 Silesia .74 Galicia
.75 Bukowina

.8

Poland Including history before the division

Extinct as state from 3d partition in 1795 til 1919, when its sovereignty was restored by the peace of Versailles. See also 943.11-14, 943.73-74 and 947.4-5

9

Hungary, etc.

By the peace of Versailles 1919 the union of Transylvania (.92) with Rumania in 1918 was confirmd; Fiume (.94) was made independent, sub-
ject to plebiscit in 4 years; Slavonia (.93) Croatia (.94) Bosnia (.95) and Herzegovina (.96) were recognized as part of Jugoslavia (see 949.71)

- .91 Hungary .92 Transylvania .93 Slavonia .94 Croatia.
Fiume .95 Bosnia .96 Herzegovina

944 France

Period divisions

- .01 **Early history** -987
 Ancient Kelts -59 B. C. Roman dominion 59 B. C.-418 A. D.
 Merovingian dynasty 428-752 Carolingian 752-987
- .02 **Capet and Valois** 987-1589
 House of Capet
 1 Hugh Capet 987-996 Robert 2 996-1031 Henry 1
 1031-60
 2 Philip 1 1060-1108 Louis 6 1108-37 Louis 7 1137-80
 3 Philip 2 1180-1223 Louis 8 1223-26 Louis 9 1226-70
 4 Philip 3 1270-85 Philip 4 1285-1314 Louis 10 1314-16
 John 1 1316 Philip 5 1316-22 Charles 4 1322-28
 House of Valois
 5 Philip 6 1328-50 John 2 1350-64 Charles 5 1364-80
 6 Charles 6 1380-1422 Charles 7 1422-61
 7 Louis 11 1461-83 Charles 8 1483-98 Louis 12 1498-1515
 House of Angoulême
 8 Francis 1 1515-47 Henry 2 1547-59
 9 Francis 2 1559-60 Charles 9 1560-74 Henry 3 1574-89
- .03 **Bourbon** 1589-1789
 1 Henry 4 1589-1610 2 Louis 13 1610-43 3 Louis 14
 1643-1715 4 Louis 15 1715-74 5 Louis 16 1774-92
- .04 **Revolution** 1789-1804
 1 National assembly 1789-92 2 First republic 1792-99: 3 Con-
 vention 1792-95 4 Reign of terror, May 1793-July 1794
 5 Directory 1795-99 6 First consulate, Napoleon 1799-1804
- .05 **First empire** 1804-1815
 Napoleon 1 1804-14 Louis 18 1814-15 The hundred days,
 March 20-June 29, 1815
- .06 **Restoration** 1815-1848
 1 Louis 18 1815-24 2 Charles 10 1824-30 3 Louis Philippe
 1830-48
- .07 **Second republic and second empire** 1848-1870
 Revolution of 1848 Second republic, Louis Napoleon, pres.
 1848-52 Napoleon 3 1852-70
- .08 **Third republic** 1870-
 Franco-German war, Government of national defense 1870-71
 National assembly 1871 Presidency of Thiers 1871-73
 McMahon 1873-79 Grévy 1879-87 Sadi-Carnot 1887-94
 Casimir Périer 1894-95 Faure 1895-99 Loubet 1899-1906
 Fallières 1906-13 Poincaré 1913-
- Geografic divisions of France**
- .I **Brittany** **Maine** **Anjou**
 .11 Finistère .12 Côtes du Nord .13 Morbihan .14 Loire
 Inférieure .15 Ille et Vilaine .16 **Maine:** Mayenné
 .17 Sarthe .18 Anjou: Maine et Loire
- .2 **Normandy** **Picardy**
 .21 Manche .22 Calvados .23 Orne .24 Eure .25 Seine
 Inférieure .26 Picardy: Somme .27 Artois: Pas de Calais
 .28 Nord

DECIMAL CLASSIFICATION

- 944.3 **Champagne** **Ile de France** **Lorraine**
 .31 Ardennes .32 Marne .33 Aube Haute Marne .34 Ile
 de France: Aisne .35 Oise .36 Seine et Oise, Paris
 .37 Seine et Marne .38 Lorraine (Alsace-Lorraine):
 .381 Meuse .382 Meurthe et Moselle .383 Alsace (But
 use .38 for Alsace and Lorraine together) See also 943.44-.45
 .39 Vosges
- .4 **Burgundy** **Franche Comté** **Savoy**
 .41 Yonne .42 Côte d'Or .43 Saône et Loire .44 Ain
 .45 Franche Comté: Haute Saône, Belfort .46 Doubs .47 Jura
 .48 Savoy: Savoie .49 Haute Savoie
- .5 **Orléans, etc.** **Auvergne**
 .51 Eure et Loir .52 Loiret .53 Loir et Cher .54 Touraine:
 Indre et Loir .55 Berry: Indre, Cher .56 Nivernais:
 Nièvre .57 Bourbonnais: Allier .58 Lyonnais: Loire,
 Rhône .59 Auvergne: Puy de Dôme, Cantal
- .6 **Poitou** **Limousin**
 .61 Vendée .62 Deux Sèvres .63 Vienne .64 Charente
 Inférieure .65 Charente .66 Limousin: Haute Vienne
 .67 Corrèze .68 Marche: Creuse
- .7 **Guienne** **Gascony**
 .71 Gironde .72 Dordogne .73 Lot .74 Aveyron .75 Tarn
 et Garonne .76 Lot et Garonne .77 Gascony: Landes,
 Gers .78 Hautes Pyrénées .79 Béarn: Basses Pyrénées
- .8 **Languedoc**
 .81 Haute Loire, Lozère .82 Ardèche .83 Gard .84 Hérault
 .85 Tarn .86 Haute Garonne .87 Aude .88 Foix: Ariège
 .89 Pyrénées Orientales
- .9 **Provence** **Dauphiny**
 .91 Bouches du Rhône .92 Vaucluse .93 Var .94 Alpes
 Maritimes, Monaco .95 Basses Alpes .96 Dauphiny .97
 Hautes Alpes .98 Drôme .99 Isère

945 Italy

Period divisions

- | | | |
|-----|---|-----------|
| .01 | Gothic and Lombard kingdoms | 476-774 |
| .02 | Frankish emperors | 774-961 |
| .03 | German emperors | 962-1122 |
| | Hildebrand and papal supremacy | |
| .04 | Age of the communes | 1100-1300 |
| | Free cities Strifes of Guelphs and Ghibelines | |
| .05 | Age of the despots | 1300-1492 |
| .06 | Age of invasions | 1492-1527 |
| .07 | Spanish-Austrian ascendancy | 1527-1796 |
| .08 | Struggle for independence | 1796-1870 |
| .09 | United Italy | 1870- |
| | Victor Emanuel, Cavour, Garibaldi | |

Geografic divisions of Italy

- 945.1 Piedmont and Liguria
 - .2 Lombardy
 - .3 Venetia
 - .4 Emilia
 - .5 Tuscany
 - .6 Marches, Umbria and Latium
 - .7 Naples
 - .71 Abruzzo and Molise
 - .72 Campania
 - .73 Napoli
 - .74 Salerno
 - .75 Apulia
 - .76 Lecce, Terra di Otranto
 - .77 Basilicata, Potenza
 - .78 Calabria
 - .79 Reggio di Calabria
 - .8 Sicily Malta
 - .9 Sardinia and Corsica
- 946 Spain

Period divisions

- .01 Early history Roman dominion Gothic kingdom — 711
- .02 Moorish kingdom 711-1479
- .03 Ferdinand 5 and Isabella 1479-1516
 - Discovery
 - Expulsion of the Moors
- .04 Charles 1 and Philip 2 1516-98
 - Inquisition War with the Netherlands Armada Charles 1
 - (5th of Germany) 1516-56 Philip 2 1556-98
- .05 Philip 3 — Charles 4 1598-1808
 - Degeneration 1 Philip 3 1598-1621 2 Philip 4 1621-65
 - 3 Charles 2 1665-1700 4 House of Bourbon: 5 Philip 5
 - 1700-46 6 Ferdinand 6 1746-59 7 Charles 3 1759-88
 - 8 Charles 4 1788-1808
- .06 Peninsular war 1808-14
 - Joseph Bonaparte
- .07 Bourbon restoration 1814-68
 - Attempts at reform
 - Ferdinand 7 1814-33 Isabella 2 1833-68
- .08 Revolution and 2d restoration 1868—
 - Revolution of 1868-70 Amadeus 1870-73 Republic 1873-75
 - Alfonso 12 1875-85 Alfonso 13 1886-

Geografic divisions of Spain

- .1 Galicia Asturias
- .2 Leon Estramadura
- .3 Old Castile
- .4 New Castile
- .5 Aragon
- .6 Basque provinces
- .7 Catalonia Balearic iles Valencia Murcia
- .8 Andalusia Canary iles
- .9 Portugal
 - .98 Madeira
 - .99 Azores

947 Russia

Period divisions

.01	Primitiv Russia	—862
.02	Varangian kingdom	862-1237
	Conversion to Christianity	
.03	Mongolian invasion	1237-1462
	Civil wars	
.04	Ivan 3-Ivan 5	1462-1689
	Origin of serfdom	
.05	Peter the Great	1689-1725
	Wars with Sweden and Turkey	
.06	Catharine 1-Catharine 2	1725-96.
	Partition of Poland	
.07	Paul 1-Nicholas 1	1796-1855
	War with Napoleon	
	Insurrection of Poland	
	Crimean war	See also 942.08, 944.07, 945.08, 949.6
.08	Alexander 2	1855-81
	Emancipation of the serfs	
	Turko-Russian war	
	Alexander 3	1881-94
	Nicholas 2	1894-1917
	Revolution 1917	

Geografic divisions of Russia

.1	Finland	Lapland
.2	Northern Great Russia	
	Archangel, Vologda, Olonetz, Novgorod	
.3	Southern Great Russia	
.4	Baltic provinces	
	Courland, Livonia, Esthonia, Petrograd (Petersburg)	
.5	Russian Poland	
	Partly restored to Poland by peace of Versailles 1919.	Lithuania
.6	West Russia	
.7	Little Russia	South Russia
	Ukraine	
.8	East Russia	
.9	Caucasia	

948 Norway Sweden Denmark

Period divisions

.01	Legendary period	-800
.02	Consolidation Migration	801-1397
	Introduction of Christianity	
	Discovery of Iceland, Greenland, and America	
	Conquest of Britain and Normandy	
.03	Union of the 3 kingdoms	1397-1523
	Civilization Foren relations	
.04	The reformation	1523-1648
	Edict of toleration 1527	
	30 years war Gustavus Adolphus	
.05	Decline	1648-1792
	Wars vs Denmark, Poland, Russia	
	Political changes	
.06	Napoleonic wars	1792-1818
	Union of Norway and Sweden 1814	
.07	Charles 14 (Bernadotte)	1818-
	Peace Internal reform	

.08

Geografic divisions

.1	Norway
.2	Christiania
.3	Christiansand Bergen
.4	Hamar Throndhjem Tromso
.5	Sweden
.6	Gothland
.7	Svealand
.8	Norrland
.9	Denmark

949 Minor countries of Europe

.1	Iceland Faroe ilands
	01 Commonwealth -1264 02 Medievalism 1264-1551 03 Absolute rule, Decay 1551-1848 04 Modern Iceland 1848-
.2	Netherlands
	01 Early history -1477 02 Austrian dominion 1477-1566 Wars for independence 1566-1648 04 Age of prosperity 1648-1795 05 Revolutionary 1795-1830 06 19th century 1830-1900 07 20th century 1901-
.3	Belgium
.4	Switzerland
	01 Early history -1300 02 Struggle for independence 1300-1499 03 Reformation 1499-1648 04 Period of tranquillity 1648-1789 05 Period of revolution 1789-1815 06 19th century 1815-1900 07 20th century 1901-

DECIMAL CLASSIFICATION

- 949.5 **Byzantine empire and modern Greece**
 01 **Greek revival** 323-716
 Constantine the great-Theodosius 3
 02 **Byzantine prosperity** 716-1057
 Leo 3-Michael 6
 03 **Byzantine decline** 1057-1204
 Isaac 1-Latin conquest of Constantinople
 04 **Greek survival** 1204-1453
 Constantinople taken by the Turks, 1453
 05 **Turkish power** 1453-1821
 06 **Greek independence** 1821-
- .6 **Turkey in Europe** **Balkan states** .61 Constantinople
 Also works covering Turkey in Asia
- .7 **Jugoslavia: Serbia, Montenegro** **Bulgaria**
 .8 **Rumania: Wallachia, Moldavia, Dobruja**
 .9 **Ilands of Greek archipelago**
 Divided like 939.1

950 **Asia**

Constitutional Hist.

- 951 **China**
 .1 N. E. China, Peking .2 S. E. China, Canton, Hong Kong, Taiwan
 (Formosa) .3 S. W. China .4 N. W. China .5 Tibet .6 East
 Turkestan .7 Mongolia .8 Manchuria .9 Chosen (Korea)

952 **Japan**

- 953 **Arabia**
 .1 Sinai .2 Hejaz, Mecca .3 Yemen .4 Hadramaut, Mah-
 rah .5 Oman .6 Hasa .7 Dahna .8 Nejd .9 Syrian
 desert

954 **India**

- .1 Bengal, Orissa, Assam, Bhotan .2 Northwest provinces, Oudh,
 Nepal .3 Central provinces .4 Rajputana .5 Punjab,
 Delhi, Lahore .6 Kashmir .7 Bombay, Sind, Baroda
 .8 Madras, Mysore, Travancore, Ceylon .9 Hyderabad

955 **Persia**

- 956 **Turkey in Asia** See also 949.6
 .1 Khodavendigar .2 Aidin, Smyrna .3 Kastamuni, Angora
 .4 Konieh, Adana, Cyprus .5 Trebizond, Sivas .6 Armenia and
 Kurdistan: Erzerum; Mamuret el Aziz, Karput; Diarbekr; Bitlis;
 Van .7 Mesopotamia: Mosûl; Bagdad; Basra .8 Aleppo .9 Syria,
 Damascus, Phenicia, Palestine

957 **Siberia**

- 958 **Afghanistan** **Turkestan** **Baluchistan**
 .1 N. E. Afghanistan, Kabul .2 South Afghanistan, Kandahar
 .3 N. W. Afghanistan, Herat .4 **Turkistan** .5 Kiva .6 Bok-
 hara .7 Ferghana or Khokan .8 **Baluchistan**

- 959 Farther India
 .1 British Burma .2 Burma .3 Siam .4 Laos .5 Lower Siam, Malay peninsula .6 Cambodia .7 French Cochinchina
 .8 Anam .9 Tonkin
- 960 **Africa**
- 961 North Africa
 .1 Tunis .2 Tripoli .3 Fezzan
- 962 Egypt
 .1 Lower Egypt, Alexandria, Cairo .2 Middle Egypt .3 Upper Egypt, Thebes .4 Nubia .5 Dongola .6 Egyptian Sudan; Kartum .7 Darfur .8 Kordofan .9 Sennaar
- 963 Abyssinia
- 964 Morocco
- 965 Algeria
- 966 North Central Africa
 .1 Sahara .2 Sudan .3 Senegambia, Senegal .4 Sierra Leone .5 Upper Guinea .6 Liberia .7 Ashanti .8 Dahomey, Togo .9 Gold Coast
- 967 South Central Africa
 .1 Lower Guinea, Kamerun .2 Loango, French Kongo .3 Portuguese West Africa, Angola, Benguela .4 Interior .5 Free State, Kongo basin .6 Central lake region: British East Africa, Uganda .7 Somali .8 Zanzibar .9 Mozambique, Portuguese East Africa
- 968 South Africa
 .1 Sofala .2 Transvaal .3 Zululand .4 Natal .5 Orange Free State .6 Kaffraria .7 Cape Colony .8 West Coast .9 Interior: Rhodesia, Mashona
- 969 Madagascar Mauritius

970 North America

- .1 Indians, aborigines .2 Lives of Indians .3 Special tribes
 .4 Special states .5 Government relation and treatment .6 Special subjects: character, civilization, agriculture, etc.

See 371.975 Education; 572.97 Ethnology; 497 Languages

971 Canada British America

General works on Canada under British rule

For histories of special periods see 971.01-.054; of special provinces see 971.1-.9

For constitutional history see 342.71

Period subdivisions

For works not limited to any of the territorial subdivisions .1-.9 but dealing with a limited period

Class archives with their periods and segregate them if wisht by booknumbers that will automatically locate them ahead of other histories having the same class number: e.g. A1-A9 if Cutter numbers are used for other works; Aa-Az if Cutter-Sanborn numbers are used

- .01 **French regime 1497-1763**
 From earliest time till cession to England
- .011 **Discovery and early settlement 1497-1632**
 Early explorations along Atlantic seaboard 1497-1533. Discovery and occupation of St Lawrence 1534-43. Rise of fur trade 1544-1612. Permanent colonization 1613-32
- .016 **Extension of English rule 1632-1763**
 Treaty of St Germain-en-Laye 20 Mar. 1632
- .018 **Struggle with England for supremacy**
 Peace of Utrecht 1713-Peace of Paris 1763. Seven years war 1755-63; in United States cald French and Indian war. British supremacy dates actually from fall of Quebec, 1759; formally from peace of Paris, 10 Feb. 1763
- .02 **End of 7 years war to constitutional act 1791**
 Conspiracy of Pontiac 1763-64
 Quebec act 1774
- .024 **American revolution United Empire loyalists**
 Canadian libraries will class here United Empire loyalists, but works on the revolution 1775-83 are better put in 973.3
- .03 **1792 to Union act 1841**
 See also 971.3 Ontario and 971.4 Quebec
- .034 **War of 1812**
 1812-15 In United States cald also 2d war for independence
 Better class in 973.52 (United States history)
- .038 **Rebellion 1837-38**
- .039 **Union act 10 Feb. 1840**
 Passage of Union act, closing the period under the Constitutional act. See also constitutional history, 342.719
- .04 **Union 1841 to Confederation 1867**
 Beginning with operation of Union act; Canadian parliament at Ottawa 13 June 1841. Class clergy reservs agitation in 971.3 Ontario; abolition of seigniories in 971.4 Quebec
- .048 **Fenian invasions**
- .049 **British North America act, 29 March 1867**
- .05 **Dominion of Canada 1867-**
 Canada under British North America act
- .051 **Red river (Riel's 1st) rebellion 1870**
- .054 **Northwest (Riel's 2d) rebellion 1885**

Geografic divisions

- 971.1 **British Columbia**
 .2 **Northwest Territories**
 Including former Hudson Bay territory
- .21 **Yukon**
 Klondike region Dawson (city)
- .22 Mackenzie
- .23 **Alberta**
- .24 **Saskatchewan**
- .26 Keewatin
- .27 **Manitoba**
- .28 Ungava
- .29 **Franklin**
 See also 998 Arctic region
- 3 **Ontario**
 For St Lawrence river see 971.4
 Formerly also Upper Canada or Canada West
 See also 971.4 note Class here Clergy reservs
- 31 **Northwestern**
 North shore of Lake Superior and Lake Huron; Georgian bay
- .311 **Rainy River district**
 Lake of the Woods Rainy lake
- .312 **Thunder Bay district**
 Fort William
- .313 **Algoma district**
 Sault Ste Marie
- .314 **Nipissing district**
 Manitoulin island
- .315 **Parry Sound** Maganetawan districts
- .316 **Muskoka** Lake of Bays district
- .317 **Simcoe**
- .318 **Grey** Owen Sound (or Sydenham)
- .32 **Western**
 East shore of Lake Huron
- .321 **Bruce**
- .322 **Huron**
- .323 **Perth**
- .324
- .325 **Middlesex**
 London (city)
- .326 **Lambton**
- .327
- .33 **Southwestern**
 North shore of Lake Erie
- .331 **Essex**
 Windsor (city)
- .332
- .333 **Kent**
- .334 **Elgin**
 St Thomas (city)
- .335
- .336 **Norfolk**
- .337 **Haldimand**
- .338 **Welland**

DECIMAL CLASSIFICATION

- 971.34 **West central**
- .341 Dufferin
- .342 Wellington
- .343 *Guelph* (city)
- .344 Waterloo
- .345 *Berlin* (city)
- .346 Oxford
- .347 Brant
- .348 *Brantford* (city)
- 971.35 **Southern**
- West and North shore of Lake Ontario
- .351 Lincoln
- St Catherines* (city)
- .352 Wentworth
- Hamilton* (city)
- .353 Halton Peel
- .354 York
- 1 *Toronto* (city)
- .355 Ontario
- .356 Durham
- .357 Northumberland
- .358 Hastings
- 7 Prince Edward
- .359 Lennox and Addington
- .36 **Central**
- .361 Haliburton
- .362
- .363
- .364 Victoria
- .365
- .366
- .367 Peterborough
- .368 *Peterborough* (city)
- .369
- .37 **Southeastern**
- St Lawrence river counties
- .371 Frontenac
- .372 *Kingston* (city)
- .373 Leeds
- Rideau lakes and canal
- .374 Grenville
- .375 Dundas
- .376 Stormont
- .377 Glengarry
- .378
- .379
- .38 **Northeastern**
- Ottawa river counties
- .381 Renfrew
- .382 Lanark
- .383 Carleton
- .384 *Ottawa* (city)
- .385 Russell
- .386 Prescott

971.4

Quebec St Lawrence river**Lower Canada or Canada East**

From its cession by France to England in 1763 all Canada was one colony, the Province of Quebec, till 1791. In 1791 it was divided by the constitutional act into 2 provinces: Upper Canada (Ontario) and Lower Canada (Quebec). By the union act, 1840, the 2 provinces were reunited as the Province of Canada; union in 1867 by the British North America act again divided into the provinces of Ontario and Quebec. Quebec is from Caudebec (Normandy), home of many of its early settlers.

- .41 Northern**
- .411** Mistassini
- .412** Abitibi
- .414** Lake St John
- .416** Chicoutimi
- .417** Saguenay Anticosti island
- .419** Ashuanipi
- .42 Western** Ottawa river counties
- .421** Pontiac
- .422** Ottawa (former county)
- 1 Wright
- 2 Hull (city)
- 5 Labelle
- .423** Argenteuil
- .424** Terre Bonne
- .425** Two Mountains
- .426** Vaudreuil
- 5 Soulanges
- .427** Laval
- .428** Hochelaga
- 1 Montreal (city)
- 5 Jacques Cartier
- .43 Southwestern** South of the St Lawrence and west of Richelieu river
- .431** Huntingdon
- .432** Beauharnois
- .433** Chateaugay
- .434** La Prairie
- .435** Napierville
- .436** Verchères
- .437** Chambly
- .438** St Johns
- .44 North central** North of St Lawrence from Montreal to Saguenay river
- .441** Montcalm
- 6 L'Assomption
- .442** Joliette
- .443** Berthier
- .444** Maskinonge
- .445** St Maurice
- .446** Champlain
- 6 Portneuf
- .447** Quebec
- 1 Quebec (city)
- .448** Montmorency
- île d'Orléan
- .449** Charlevoix

DECIMAL CLASSIFICATION

971.45

South Central

Counties south of St Lawrence from Richelieu river to Quebec

- .451 Richelieu
- .452 St Hyacinthe
- 5 Bagot
- .453 Rouville
- .454 Yamaska
- .455 Nicolet
- .456 Drummond
- 5 Arthabaska
- .457 Wolfe
- 5 Megantic
- .458 Lotbinière
- .459 Levis

Southern

Southern border from Richelieu river to Lake Megantic

- .461 Iberville
- .462 Missisquoi
- .463 Shefford
- .464 Brome
- .465 Richmond
- .466 Sherbrooke
- Sherbrooke (city)*
- .467 Stanstead
- .468 Compton
- .469 Lake Megantic

Southeastern

Lower St Lawrence, southern side from Quebec to Gulf of St Lawrence

- .471 Beauce
- .472 Dorchester
- .473 Bellechasse
- 5 Montmagny
- .474 L'Islet
- .475 Kamouraska
- .476 Temiscouata
- .477 Rimouski
- 5 Matane
- .478 Bonaventure
- .479 Gaspé
- 7 Magdalen islands

.5 New Brunswick

.51 Northern

- .511 Restigouche
- .512 Gloucester

.52 Eastern

- .521 Northumberland
- .522 Kent
- .523 Westmoreland
- Monckton (city)*

- 971.53 Southern**
 .531 Albert
 .532 St John
 St John (city)
 .533 Charlotte
 Grand Manan iland
 .54 **Central**
 .541 Kings
 .542 Queens
 .543 Sunbury
 .55 **Western**
 .551 York
 Fredericton (city)
 .552 Carleton
 .553 Victoria
 .554 Madawaska
.6 Nova Scotia
.61 Northern
 .611 Cumberland
 .612 Colchester
 .613 Pictou
 .614 Antigonish
.62 Southern
 .621 Guysborough
 .622 Halifax co. and city
 .623 Lunenburg
 .624 Queens
 .625 Shelburne
.63 Western
 .631 Yarmouth
 .632 Digby
 .633 Annapolis
 .634 Kings
 .635 Hants
 .69 Cape Breton (iland)
 .691 Inverness
 .693 Victoria
 .695 Cape Breton
 .696 *Sydney (city)*
 .698 Richmond
.7 Prince Edward Island
 .71 Prince
 .74 Queens
 Charlottetown (city)
 .77 Kings
.8 Newfoundland
.9 Labrador

For Moravian missions see 266.46

972 Mexico Central America

Period divisions

.01	Ancient civilization	— 1516
	1 Toltec 2 Chichimec 3 Tarascan 4 Aztec 5 Maya	
.02	Discovery and Spanish rule	1516-1810
.03	Independence	1810-1822
.04	First empire Iturbide 1 Pronunciamientos	1822-1843
.05	War with United States. See also 973.6	1845-1848
.06	Constitution of '57 Reform	1848-1861
.07	French intervention	1861-1867
.08	Later history	1867-
.09	" "	1900

Geografic divisions

.1	Free zone and Northern states
	Tamaulipas, Nuevo Leon, Cohahuila, Chihuahua, Sonora, Durango
.2	Lower California and ilands
.3	Central Pacific states
	Sinaloa, Jalisco, Colima, Michoacan
.4	Interior states
	Zacatecas, San Luis Potosi, Aguascalientes, Guanajuato, Querétaro, Hidalgo, Puebla, Tlascal, Morelos
.5	Mexico Federal district
.6	Southern Gulf states
	Vera Cruz, Tabasco, Campeche, Yucatan
.7	Southern Pacific states
	Guerrero, Oaxaca, Isthmus of Tehuantepec, Chiapas

.8 Central America

.81	Guatemala
.82	British Honduras Belize
.83	Honduras
.84	San Salvador
.85	Nicaragua
.86	Costa Rica

.9 West Indies

.91	Cuba
.92	Jamaica
.93	Santo Domingo
.94	Hayti
.95	Porto Rico
.96	Bahamas
.97	Leeward ilands
.98	Windward ilands Barbados
.99	Bermudas

973 United States

SUMMARY OF 973

.1	Discovery	—1607
.2	Colonial	1607—1775
.3	Revolution	1775—1789
.4	Constitutional	1789—1809
.5	War of 1812	1809—1845
.6	War with Mexico	1845—1861
.7	Civil war	1861—1865
.8	Later 19th century	1865—1901
.91	Early 20th century	1901—

See also 342.73 U. S. constitutional law and history; 328.73 U. S. legislative bodies and annals; 329 Political parties; 353 U. S. government

.1 Discovery —1607

From earliest times to settlement of Jamestown

See also 970.1-6 American indians; 913.7 American antiquities; 571.91 Mounds and mound builders; 571.85 Pueblos

.11 Precolumbian

For precolumbian claims of Chinese, Norse, Welsh, etc. see .12 to .18 below

Arabs	Poles	
Jews	Germans	Martin Behaim
Africans	Italians	
Irish		

.12 Chinese**.13 Norse**

Gunnbiorn	Bjarni Herjulfson
Eric the Red	Thorwald
Leif Ericson	Thorfinn Karlsefne

.14

Welsh
Prince Madoc

.15 Columbus**.16 Spanish and Portuguese**

Dates of voyages are added to names

Amerigo Vespucci	1497—1504
Gaspar and Miguel Cortereal	1500—2 Labrador
Juan Ponce de León	1513—21 Florida
Vasco Nuñez de Balbóa	1513 Pacific ocean
Hernando Cortés	1518—40 See also 972.02 History of Mexico
Fernando da Magalhaens	1518—21 Magellan straits
Francisco Pizarro	1524—41 See also 985 History of Peru
Hernando de Soto	1539—42 Mississippi river
Francisco Vasquez de Coronado	1540—42 New Mexico, Arizona Colorado

.17 English

John and Sebastian Cabot	1497—1530
Sir John Hawkins	1562—69
Sir Francis Drake	1570—80
Sir Martin Frobisher	1576—78
Sir Humphrey Gilbert	1578—83
Sir Walter Raleigh	1578—1602
John Davis	1585—87
Bartholomew Gosnold	1602—07

DECIMAL CLASSIFICATION

973.18 French

- Giovanni da Verrazano 1524
- Jacques Cartier 1534-44 Canada
- Jean Ribault 1562-65 Florida
- René de Laudonnière 1564-66 Florida
- Samuel de Champlain 1603-35 See also 971 History of Canada

.19 Other nations

.2 Colonial Period 1607-1775

See also histories of separate colonies

.21 Virginia settlement 1607-20

- Settlement of Jamestown 13 May 1607 See 975.5 Virginia history
- Hudson's voyage 1609 See also 974.7 N. Y. history

James 1 1603-25

.22 New England settlement 1620-43

- Settlement of Plymouth 21 Dec. 1620 See 974.4 Mass. history
- Pequot war 1636-37 Connecticut

Charles 1 1625-49

.23 New England confederacy 1643-64

- United colonies of New England 19 May 1643

Commonwealth 1640-53

Oliver Cromwell 1653-58

Richard Cromwell 1658-59

.24 Conquest of New Netherlands 1664-89

- King Philip's war 1675-76 Massachusetts
- War with eastern indians 1675-78 Maine
- Sir Edmund Andros, governor of New England 1686-89

Charles 2 1680-85

James 2 1685-88

.25 Early French wars 1689-1732

- Witchcraft in New England See 133.4
- King William's war 1689-97
 - Sometimes cald in Europe 'War of the Palatinate'
- Queen Anne's war 1702-13
 - Known in Europe as War of the Spanish succession

William 3 1689-1702

Anne 1702-14

George 1 1714-27

.26 Extension of English rule 1732-63

- Settlement of Georgia 1732 See 975.8 Georgia history
- King George's war 1744-48
 - Known in Europe as War of the Austrian succession
- Albany convention assembled 19 June 1754
- French and indian war 1755-63
 - Known in Europe as Seven years war
- Braddock's defeat 9 July 1755
- Crown Point and Ticonderoga 1758-59
- Capture of Louisburg 27 July 1758
- Capture of Quebec 18 Sep. 1759; Montcalm and Wolfe
- Peace of Paris 10 Feb. 1763

George 2 1727-63

.27 Last years of the colonies 1763-75

- See also specially 973.311 Causes of the Revolution
- Conspiracy of Pontiac 1763-64
- Bouquet's expedition 1763-64
- Lord Dunmore's war Ap.-Oct. 1774 Virginia

George 3 1760-1821

973.3 Revolution and confederation

1775-89

SUMMARY OF 973.3

- .31 Political history
- .32 Diplomatic history
- .33 Special campaigns and battles
- .34 General military history
- .35 Naval history
- .36 Celebrations
- .37 Prisons, hospitals
- .38 Personal narratives
- .39 Illustrativ material
- .31 **Political history; causes, results**
For financial history see 336.73
- .311 **Causes 1775**
 - 1 Stamp act 1765
 - 2 Navigation acts; mercantil policy
Burning of the Gaspé 17 June 1772
 - 3 Boston massacre 5 Mar. 1770
 - 4 Taxation and representation
 - 5 Tax on tea 1767 Boston tea party 16 Dec. 1773
 - 6 Boston port bill 1774
- .312 **Political history 1775-83**
Continental congress See 328.73 U. S. legislativ bodies
- .313 **Declaration of independence 4 July 1776** See also 973.361
Mecklenburg declaration 20 May 1775
- .314 **Loyalists, tories** See also 973.381 Treason and traitors
- .315 **Relations of special classes to the Revolution**
Clergy and churches
Lawyers
College graduates
- .316
- .317 **Treaty of peace 1783**
Concluded at Paris 3 Sep. 1783; ratified 14 Jan. 1784
- .318 **Confederation 1783-89**
Shay's rebellion 1786-87 Massachusetts
Cession of western territory to United States
- .319
- .32 **Diplomatic history; relations with other nations**
Divided like 940; e. g. 973.324 Relations with France; 973.326 Relations with Spain
- .33 **Special campaigns and battles**
- .331 **Campaigns of 1775**
 - 1 Lexington and Concord 19 April See also 973.362
 - 2 Bunker Hill 17 June See also 973.366
 - 3 Siege of Boston June 1775-March 1776
 - 4 Ticonderoga 10 May
Crown Point 12 May
 - 5 Canadian expeditions
Montgomery
Arnold
 - 6
 - 7
 - 8 Events in the south

DECIMAL CLASSIFICATION

- 973.332 Campaigns of 1776
- 1 Campaign for the Hudson
 - 2 Battle of Long Island 27 Aug.
 - 3 British occupation of New York
 - 4 American retreat Sep.-Nov. 1776
 - Harlem Hights 16 Sep.
 - White Plains 28 Oct.
 - Fort Washington 16 Nov.
 - 5 Washington in the Jerseys Dec. 1776-Jan. 1777
 - 6 Trenton 26 Dec.
Princeton 3 Jan. 1777
 - 7
 - 8 Events in the south
 - North Carolina
 - Fort Moultrie, Sullivan's island 28 June
- .333 Campaigns of 1777
- 1 Events in Connecticut and Rhode Island
 - 2 Burgoyne's campaign
 - Ticonderoga evacuated 6 July
 - Hubbardton, Vt 7 July
 - Bennington, Vt 16 Aug.
 - 3 Freeman's farm or Bemis Hights or Stillwater 19 Sep.
Bemis Hights or Saratoga 7 Oct.
Burgoyne's surrender 17 Oct.
 - 4 Fort Stanwix or Fort Schuyler or Oriskany 2-22 Aug.
 - 5 Clinton's advance up the Hudson
Forts Clinton and Montgomery 6 Oct.
 - 6 Howe's campaign
 - Brandywine 11 Sep.
 - Paoli 20 Sep.
 - 7 Philadelphia taken by British 27 Sep.
Germantown 4 Oct.
Forts on the Delaware
 - Red Bank, or Fort Mercer 22 Oct.
 - Mud island, or Fort Mifflin 10-16 Nov.
 - 8 Events in south Including Kentucky
- .334 Campaigns of 1778
- 1 Washington at Valley Forge 1777-78
 - 2 Events in middle states
 - Battle of Monmouth 28 June
 - 3 Evacuation of Philadelphia June
 - 4 Indian depredations See also 973.343
 - Wyoming 1-4 July
 - Mohawk valley
 - Cherry valley 11 Nov.
 - Brant See also 970.2 Indian biography
 - 6 Rhode Island campaign, August See also 973.354 Naval history
 - 7 Events in the south
 - Capture of Savannah 29 Dec.
 - 8 Events in northwest 1778-79
 - Clark's expedition
 - Vincennes, Ind. 2 Jan. and 20 Feb. 1779

- 973.335 Campaigns of 1779
- 1 Events in New England
 - Tryon in Connecticut July
 - 2 Penobscot expedition Aug. and Sep.
 - 3 Events in middle states
 - Minisink 19 July
 - 4 Wayne at Stony Point 16 July
 - 5 Paulus Hook 19 Aug.
 - 6 Sullivan's expedition July-Sep.
 - 7 Events in the south
 - Briar creek 3 Mar.
 - Siege of Savannah 23 Sep. and 18 Oct.
 - 8 Events in northwest See 973.3348
- .336 Campaign of 1780
- 1 Southern campaigns
 - Waxhaws, N. C. 29 May
 - Ramsour Mills, N. C. 20 June
 - Leslie's expedition into Virginia Oct
 - 2 Siege of Charleston Mar.-May
 - 3 Camden, S. C. 16 Aug.
 - 4 Kings mountain, S. C. 7 Oct.
 - 5 Events in middle states
 - Springfield, N. J. 23 June
 - Bull's Ferry, N. Y. 21 July
 - 6 Northern invasion
- .337 Campaigns of 1781
- 1 Southern campaigns
 - 2 Events in Carolinas Jan.-Ap.
 - Cowpens, S. C. 17 Jan.
 - Guilford, N. C. 15 Mar.
 - Hobkirks hill, S. C. 25 Ap.
 - 3 Events in Carolinas May-Dec.
 - Fort Ninety-Six, S. C. May-June
 - Eutaw Springs, S. C. 8 Sep.
 - 4 British in Virginia
 - 5 Siege of Yorktown Sep.-Oct.
 - Surrender of Cornwallis 19 Oct.
 - 6 Events in the north
 - 7 Arnold in Connecticut Sep.
- .338 Campaigns of 1782
- .339 Events of 1783
- British evacuation of New York 25 Nov. See also 973.363

DECIMAL CLASSIFICATION

- 973.34 General military history**
- .341 English side
 - .342 Mercenaries; Hessians
 - .343 Indians
 - .344 American side
 - Part taken by special states, specially the northern states. Under the number for each state use the book numbers A1-A19 for official publications, A2 for lists of revolutionary soldiers
- I**
- 2 New Hampshire
 - 3 Vermont Not then a state, admitted 1791
 - 4 Massachusetts
 - 5 Rhode Island
 - 6 Connecticut
 - 7 New York
 - 8 Pennsylvania
 - 9 New Jersey
- .345 Southern states
- 1 Delaware
 - 2 Maryland
 - 5 Virginia
 - 6 North Carolina
 - 7 South Carolina
 - 8 Georgia
- .346 American auxiliaries
- .347 French
- .348
- .349 Special topics
- Conway cabal 1777-78
 - Mutiny of Pennsylvania line Jan. 1781
 - Newburg addresses 1782-83
- .35 Naval history**
- .351 Events of 1775
- Capture of the Margarettta June 12
- .352 Events of 1776
- Escape of British sloop of war Glasgow 6 Ap.
 - Battle of Lake Champlain 11-13 Oct.
 - Gen. Benedict Arnold
- .353 Events of 1777
- Lexington and Alert 20 Sep.
- .354 Events of 1778
- French fleet at Newport
- .355 Events of 1779
- Bon Homme Richard and the Serapis 23 Sep.
- .356 Events of 1780
- Trumbull and Watt 2 June
- .357 Events of 1781
- Alliance and British brigs Atalanta and Trepassey 28 May
- .358 Privateers

- 973.36 Celebrations, anniversaries, commemorations**
 These should usually be clast with the special event commemorated, but some anniversaries are of such general character as to be better clast here. For Patriotic societies of the revolution see 369.13
- .361 Fourth of July See also 973.313
 .362 19th of April See also 973.3311
 .363 Evacuation day, New York See also 973.339
 .364
 .365 Monuments, memorials See also 718
 .366 Bunker Hill monument See also 973.3312
 .367 Washington's various hedquarters
 Newburg, N. Y.
 Morristown, N. J.
- .37 Prisons, hospitals, etc.**
- .371 English prisons
 1 Jersey prison ship
 2 Sugar house prison
- .372 American prisons
 .373 Exchange of prisoners
 .374
 .375 Medical dep't; surgeons, nurses, etc.
 .376 Hospitals
 .377
 .378
 .379
- .38 Personal narrativs, vindications, secret servis**
- .381 Treason and traitors See also 973.314 Loyalists, tories
 .382 Benedict Arnold
 .383 Charles Lee
 .384
 .385 Secret servis, spies
 American side: Nathan Hale
 British side: Major John André
- .386**
- .39 Illustrativ material**
 These numbers should be used mainly for references. Poems, dramas etc. should usually be clast under their own numbers, 811, 812, etc. but special collections should be clast here
- .391 Poetry
 .392 Drama
 .393 Fiction
 .394 Addresses
 .395 Sermons
 .396 Humor
 .397 Pictures
 Paintings, drawings, caricatures, engravings, photografs, sculpture
- .398 Music
 .399 Maps

DECIMAL CLASSIFICATION

- 973.4 Constitutional period** **1789-1809**
 See 342.73 U. S. constitution; 329.1 Federal party 1789-1823; 329.2 Antifederal party 1789-92
- .41 George Washington** **30 Ap. 1789-4 Mar. 1797**
 Born 22 Feb. 1732; died 14 Dec. 1799
 Sworn into office 30 Ap. 1789
 National bank established 25 Feb. 1791 See 332.11
 Vermont admitted, 14th state 4 Mar. 1791 See 974.3
 Kentucky admitted, 15th state 1 June 1792 See 976.9
- .42 Indian wars**
 Harmar's expedition 1790
 St Clair's expedition 1791
- .43 Washington's 2d term** 4 Mar. 1793-4 Mar. 1797
 Neutrality proclamation 22 Ap. 1793 See also 341.3
 Whisky insurrection July-Nov. 1794
 Wayne's expedition, Oct.-Nov. 1794, and treaty, 3 Aug. 1795
 Jay's treaty 28 Oct. 1795 See also 341.2
 Treaty with Spain 27 Oct. 1795 See also 341.2
 Tennessee admitted, 16th state 1 June 1796 See 976.8
- .44 John Adams** **4 Mar. 1797-4 Mar. 1801**
 Born 31 Oct. 1735; died 4 July 1826
 Alien act 25 June 1798 See 341.5
 Sedition act 14 July 1798 See 323
 Removal of capitol to Washington
- .45 Troubles with France**
 Naval battles; Constellation and L'Insurgent 9 Feb. 1800
- .46 Thomas Jefferson** **4 Mar. 1801-4 Mar. 1809**
 Born 2 Ap. 1743; died 4 July 1826
 Ohio admitted, 17th state 19 Feb. 1803 See 977.1
 Purchase of Louisiana 2 May 1803
- .47 Wars with Barbary states**
- .48 Jefferson's second term** 4 Mar. 1805-4 Mar. 1809
 Aaron Burr's conspiracy 1806
 See also 923.27 lives of Burr; and 343.1 Trials
 Embargo act 22 Dec. 1807
- .5 War of 1812** **1809-45**
- .51 James Madison** **4 Mar. 1809-4 Mar. 1817**
 Born 16 Mar. 1751; died 28 June 1836
 Engagement between ships President and Little Belt 16 May 1811
 Defeat of Indians by Gen. Harrison at Tippecanoe 7 Nov. 1811
 Louisiana admitted, 18th state 30 Ap. 1812 See 976.3
 Indiana admitted, 19th state 11 Dec. 1816 See 977.2

- 973.52 War of 1812
 War declared 18 June 1812. Treaty of peace 24 Dec. 1814
- .521 Political history; causes, results
 Hartford convention
- .522 Diplomatic history
- .523 Special campaigns and battles
- 1 Campaign in northwest
 Includes all west of New York
 Surrender of Detroit 16 Aug. 1812
- 2 Events in northwest 1813-14
- 3 Campaign in New York, New England and Canada
 Battle of Queenstown 13 Oct. 1812
- 4 Events in New York and New England 1813
 Capture of Fort Niagara 19 Dec.
- 5 Events in Canada 1813
 Capture of Fort George 27 May
 Battle of Thames 5 Oct.
- 6 Events in New York and New England 1814
 Bombardment of Stonington, Conn. 9-12 Aug.
- 7 Events in Canada 1814
 Capture of Fort Erie 3 July
 Battle of Chippewa 5 July
 Battle of Lundy's lane 25 July
- 8 Campaign in the south
 Battle of Bladensburg 24 Aug. 1814
 Burning of Washington 24 Aug. 1814
 Bombardment of Fort McHenry 13 Sep. 1814
- 9 Events in Louisiana
 Battle of New Orleans 22 Dec. 1814-8 Jan. 1815
- .524 General military history
- 1 English side
- 2 Indian allies
- 3
- 4 American side in general
 Divided like 974. Under the number for each state use the book numbers
 A1-A19 for official publications, A2 for lists of soldiers
- 5 South Atlantic states
 Divided like 975
- 6 Gulf states
 Divided like 976
- 7 Lake states
 Divided like 977

DECIMAL CLASSIFICATION

- 973.525 Naval history
- 1 Events of 1812
 Constitution and Guerrière 19 Aug.
 Wasp and Frolic 18 Oct.
 United States and Macedonia 25 Oct.
 Constitution and Java 29 Dec.
- 2 Events on inland waters
- 3 Events of 1813
 Hornet and Peacock 24 Feb.
 Chesapeake and Shannon 1 June
 Pelican and Argus 14 Aug.
 Enterprize and Boxer 5 Sep.
- 4 Events on inland waters
 Battle of Lake Erie 10 Sep.
- 5 Events of 1814
 Essex against Phoebe and Cherub 28 Mar.
 Peacock and Epervier 29 Ap.
 Wasp and Reindeer 28 June
 Wasp and Avon 1 Sep.
 Wasp and Atlanta 21 Sep.
- 6 Events on inland waters
 Battle on Lake Champlain 11 Sep.
- 7 Events of 1815
 Capture of frigate President 15 Jan.
 Capture of Cyane and Levant by the Constitution 20 Feb.
 Hornet and Penguin 23 Mar.
- 8 Privateers
- .526 War meetings, celebrations, anniversaries, etc.
 See note under 973.36
 See 369 14 societies of the war of 1812
- .527 Prisons, hospitals, etc.
- 1 English prisons Dartmoor
- .528 Personal narrativs, vindications, secret servis
- .529 Illustrativ material Divided like 973.39
- .53 Algerine war
- .54 James Monroe 4 Mar. 1817-4 Mar. 1825
 Born 18 Ap. 1758; died 4 July 1831
 Mississippi admitted, 20th state 10 Dec. 1817 See 976.2
 Illinois admitted, 21st state 3 Dec. 1818 See 977.3
 Purchase of Florida 25 Feb. 1819
 Alabama admitted, 22d state 14 Dec. 1819 See 976.1
 Maine admitted, 23d state, 15 Mar. 1820 See 974.1
 Missouri compromise See 326.973 and 973.7113
 Missouri admitted, 24th state 10 Aug. 1821 See 977.8
 Monroe doctrin Dec. 1823 See 327.73
 Tariff act 22 May 1824 See 337
- .541 First Seminole war 1818
- .55 John Quincy Adams 4 Mar. 1825-4 Mar. 1829
 Born 11 July 1767; died 23 Feb. 1848
 Erie canal completed 1825 See 386
 Panama congress 1826 See 341.1
 Removal of Creek indians 1825-29 See 970.3
 Tariff act 19 May 1828 See 337

- 973.56 **Andrew Jackson** 4 Mar. 1829-4 Mar. 1837
 Born 15 Mar. 1767; died 8 June 1845
 Rotation in office See 351.6
 United States bank See 332.11
 Whig party See 329.4
 Compromise tariff act 3 Mar. 1833 See 337
 Independence of Texas 2 Mar. 1836 See 976.4
 Arkansas admitted, 25th state 15 June 1836 See 976.7
 Specie circular 11 July 1836 See 336.73
 Michigan admitted, 26th state 26 Jan. 1837 See 977.4
- .561 Nullification See also 342.73
 Webster and Hayne debate 25-27 Jan. 1830
 Nullification ordinance, South Carolina 24 Nov. 1832
- .562 Black Hawk war 1832
- .57 **Martin Van Buren** 4 Mar. 1837-4 Mar. 1841
 Born 5 Dec. 1782; died 24 July 1862
 Panic of 1837 See 332
 Alton riot 7 Nov. 1837 See 326.973
 Burning of Caroline 26 Dec. 1837
 Northeast boundary, Aroostook war Feb.-Mar. 1839
 Amistad case 1839
- .571 Second Seminole war 1835-42
- .58 **William Henry Harrison** 4 Mar. 1841-4 Ap. 1841
 Born 9 Feb. 1773; died 4 Ap. 1841
- John Tyler** 4 Ap. 1841-4 Mar. 1845
 Born 29 Mar. 1790; died 18 Jan. 1862
 Dorr's rebellion May-June 1842 See 974.5
 Ashburton treaty, northeast boundary
 Texas annexation resolution 28 Feb. 1845
 Florida admitted, 27th state 3 Mar. 1845
- .6 **War with Mexico** 1845-61
- .61 **James Knox Polk** 4 Mar. 1845-4 Mar. 1849
 Born 2 Nov. 1795; died 15 June 1849
 Texas annexed, 28th state 29 Dec. 1845 See 976.4
 Wilmot proviso adopted by house 8 Aug. 1846 See also 973.7113
 Iowa admitted, 29th state 28 Dec. 1846 See 977.7
 Wisconsin admitted, 30th state 29 May 1848 See 977.5
 Free soil party; Buffalo convention Aug. 1848 See 329.6
- .611 Northwest boundary; Oregon; treaty with England 12 June 1849
- .62 Mexican war 1845-48
 War declared 13 May 1846; treaty of peace 30 May 1848
- .621 Political history; causes, results
 Annexation of Texas
 Acquisition of California, Nevada, Utah, Arizona, etc.
- .622 Diplomatic history
- .623 Special campaigns and battles
- 1 Kearny in New Mexico
- 2 Fremont in California
- 3 Taylor's campaign
- 4 On the Rio Grande
 Palo Alto 8 May 1846
 Resaca de la Palma 9 May
 Matamoras 18 May
- 5 In Mexico
 Monterey 20-25 Sep. 1846
 Buena Vista 22-23 Feb. 1847

DECIMAL CLASSIFICATION

- 973.623 6 Scott's campaign
 7 Vera Cruz 22-29 Mar. 1847
 Cerro Gordo 17-18 Ap.
 8 Battles near Mexico
 Contreras 19-20 Aug.
 San Antonio 20 Aug.
 Churubusco 20 Aug.
 9 Capture of Mexico
 Molino del Rey 8 Sep.
 Chapultepec 12-13 Sep.
 Mexico 14 Sep.
- .624 General military history
 .625 Naval history
 .626 War meetings, celebrations, anniversaries
 See note under 973.36; also 369.145 Aztec club of 1847
 .627 Prisons, hospitals, etc.
 .628 Personal narrativs
 .629 Illustrativ material See note under 973.39
- .63 **Zachary Taylor** 5 Mar. 1849-9 July 1850
 Born 24 Sep. 1784; died 9 July 1850
 Inaugural ceremony 5 March
 Compromise of 1850, Omnibus bill, introduced by Henry Clay
 29 Jan. 1850 See also 326.973 and 973.7113
- .64 **Millard Fillmore** 9 July 1850-4 Mar. 1853
 Born 7 Feb. 1800; died 7 Mar. 1874
 Clayton-Bulwer treaty 4 July 1850 See also 386
 California admitted, 31st state 9 Sep. 1850 See 979.4
 Fugitiv slave law 18 Sep. 1850 See 326.973
 Popular soverenty, or squatter soverenty See 342.73 and 326.973
 Filibustering expeditions to Cuba 1849-51 See 972.91
- .65
 .66 **Franklin Pierce** 4 Mar. 1853-4 Mar. 1857
 Born 23 Nov. 1804; died 8 Oct. 1869
 Know-nothing party See also 329.5
 Republican party See also 329.6
 Com. Perry's expedition to Japan 1852-54 See also 915.2 and 341.273
 Gadsden treaty with Mexico for purchase of southern Arizona and
 New Mexico 30 June 1854
 Kansas-Nebraska bill 30 May 1854 See also 326.973. 978.1 and 978.2
 Ostend manifesto 18 Oct. 1854 See also 972.91
 Walker's filibuster expedition against Nicaragua 1855 See also 972.85
- .67
 .68 **James Buchanan** 4 Mar. 1857-4 Mar. 1861
 Born 23 Ap. 1791; died 1 June 1868
 Dred Scott decision 6 Mar. 1857 See also 326.973 and 973.7113
 Lecompton constitution, Kansas; proslavery 7 Nov. 1857
 See also 978.1
 Minnesota admitted, 32d state 11 May 1858 See 977.6
 Oregon admitted, 33d state 14 Feb. 1859 See 979.5
 John Brown's raid 16-17 Oct. 1859 See also 973.7116 and 326.973
 Kansas admitted, 34th state 29 Jan. 1861 See 978.1
- .69

973-7 War of secession

4 Mar. 1861—15 Ap. 1865

SUMMARY OF 973-7

- .71 Political history
- .72 Diplomatic history
- .73 Special campaigns and battles
- .74 General military history
- .75 Naval history
- .76 Celebrations
- .77 Prisons, hospitals
- .78 Personal narrativs
- .79 Illustrativ material

Abraham Lincoln

4 Mar. 1861--15 Ap. 1865

Born 12 Feb. 1809; died 15 Ap. 1865

1st term 4 Mar. 1861-4 Mar. 1865; 2d term 4 Mar. 1865-15 Ap. 1865

.71 Political history; causes, results

West Virginia admitted, 35th state 19 June 1863 See 975.4

Nevada admitted, 36th state 31 Oct. 1864 See 979.3

.711 Causes

1 Slavery See also 326

2 Extension of slavery
Annexation of territory
Slavery in the territories

3 Compromises
Missouri compromise 1820 See also 973.54
Wilmot proviso 1846 See also 973.61
Compromise of 1850 See also 973.63

4 Abolition movement
Murder of Elijah P. Lovejoy 7 Nov. 1837
Assault on Charles Sumner by Preston S. Brooks 22 May 1856

5 Fugitiv slaves
Underground railway
Dred Scott case See also 973.68

6 John Brown's raid See also 973.68

7 States' rights

8 Tariff See also 337

.712 Efforts to preserv peace

Crittenden compromise introduced 18 Dec. 1860

Peace conference 4-27 Feb. 1861

.713 Secession of southern states

South Carolina 20 Dec. 1860

Mississippi 9 Jan. 1861

Florida 10 Jan.

Alabama 11 Jan.

Georgia 19 Jan.

Louisiana 26 Jan.

Texas 1 Feb.

Confederate States of America formd 4 Feb.

Virginia 17 Ap.

Arkansas 6 May

North Carolina 20 May

Tennessee 8 June

For constitutional conventions see subdivisions of 342; proceedings and documents of Confederate congress and of state legislatures see subdivisions of 328

.714 Results of the civil war

Emancipation proclamation 1 Jan. 1863 See also 326.8

Freedmen's bureau See 361

For the present condition of negro, see 325.26

For negro colony in Liberia, Africa, see 325.6; history of Liberia 966.6

DECIMAL CLASSIFICATION

- 973.715 Relations of special classes to the civil war
 Clergy and churches. Colleges, students and graduates
- .716 Southern side
- .717 Unionists in the south
- .718 Secessionists in the north
- .72 **Diplomatic history: relations with other nations**
 Divided like 940; e. g. 973.722 Relations, with England 973.727 Russia
- .721 **Diplomatic history of confederate states**
 Divided like 940; e. g. 973.7214 Relations of confederate states with France
- .73 **Special campaigns and battles**
 General arrangement of topics is based on *Official records of the Union and confederate armies*, pub. by the U. S. The indexes of those volumes can be used as a minute subject index for subdivisions of 973.73
- .731 Campaign of 1861
- 1 Operations in Charleston harbor, S. C. 20 Dec. 1860-14 Ap. 1861
 Bombardment of Fort Sumter 12-14 April
 - 2 Operations in other southern states (see *Official records*, v. 1)
 - 3 Maryland, Pennsylvania, Virginia, West Virginia, 16 Ap.-31 July
 Riot at Baltimore, Md. 19 April
 Engagement at Big Bethel, or Bethel Church, Va. 10 June
 - 4 Battle of Bull Run, or Manassas, Va. 21 July
 - 5 Missouri, Arkansas, Kansas, Indian territory 10 May-19 Nov.
 - 6 Texas, New Mexico, Arizona 11 June-1 Feb. 1862
 Kentucky, Tennessee 1 July-19 Nov.
 North Carolina, southeastern Virginia 1 Aug.-11 Jan. 1862
 - 7 Maryland, northern Virginia, West Virginia 1 Aug.-17 Mar. 1862
 - 8 Engagement at Ball's Bluff, Va. 21 Oct.
 Action near Edwards Ferry, Va. 22 Oct.
 - 9 S. Carolina, Georgia, middle and east Florida 21 Aug.-11 Ap. 1862
- .732 Campaign of 1862
- 1 West Florida, southern Alabama, southern Mississippi, Louisiana
 1 Sep. 1861-12 May 1862
 Capture of New Orleans, La. 18 Ap.-1 May
 - 2 Kentucky, Tennessee, north Alabama, southwest Virginia
 19 Nov. 1861-4 March 1862
 Capture of Fort Henry, Tenn. 6 Feb.
 Siege and capture of Fort Donelson, Tenn. 12-16 Feb.
 - 3 Missouri, Arkansas, Kansas, Indian T. 19 Nov. 1861-10 Ap. 1862
 Battle of Pea Ridge, or Elkhorn tavern, Ark. 6-8 Mar.
 - 4 Southeastern Virginia 11 Jan.-17 Mar.
 Battle of Merrimac and Monitor See 973.752
 North Carolina 11 Jan.-20 Aug.
 Burnside expedition
 Battle of Roanoke island, N. C. 8 Feb.
 Texas, New Mexico, Arizona 1 Feb.-20 Sep.
 - 5 Kentucky, Tennessee, north Mississippi, north Alabama, southwest Virginia 4 Mar.-10 June
 Siege of Corinth, Miss. 29 Ap.-10 June
 - 6 Battle of Pittsburg Landing, or Shiloh, Tenn. 6-7 Ap.

- 973-732 Campaign of 1862 *continued*
- 7 Peninsular campaign, Va. 17 Mar.-2 Sep.
Siege of Yorktown, Va. 5 Ap.-4 May
Battle of Fair Oaks, or Seven Pines, Va. 31 May-1 June
Seven-days battles 25 June-1 July
 - 8 Northern Virginia, West Virginia, Maryland 17 Mar.-2 Sep.
Battle of Cedar Run, or Cedar (Slaughter) mountain, Va. 9 Aug.
Second battle of Bull Run or Manassas, Va. 30 Aug.
 - 9 Missouri, Arkansas, Kansas, Indian Territory, Dep't of N. W.
10 Ap.-20 Nov.
- .733 Campaign of 1862 *concluded*
- 1 South Carolina, Georgia, middle and east Florida 12 Ap. 1862-
11 June 1863
 - 2 West Florida, southern Alabama, southern Mississippi, Louisiana
12 May 1862-14 May 1863
Texas, New Mexico, Arizona 20 Sep. 1862-14 May 1863
 - 3 Kentucky, middle and east Tennessee, north Alabama, southwest
Virginia 10 June-31 Oct.
 - 4 West Tennessee, northern Mississippi 10 June-20 Jan. 1863
Battle of Corinth, Miss. 3-4 Oct.
 - 5 North Carolina, southeastern Virginia 20 Aug. 1862-3 June 1863
 - 6 Northern Virginia, West Virginia, Maryland, Pennsylvania
3 Sep.-14 Nov.
Battle of South Mountain, Md. 14 Sep.
Battle of Antietam, or Sharpsburg, Md. 16-17 Sep.
 - 7 Kentucky, middle and east Tennessee, north Alabama, southwest
Virginia 1 Nov.-20 Jan. 1863
Battle of Stone river, or Murfreesboro, Tenn. 31 Dec. 1862-
3 Jan. 1863
 - 8 Northern Virginia, West Virginia, Maryland, Pennsylvania
15 Nov.-25 Jan. 1863
 - 9 Battle of Fredericksburg, Va. 11-15 Dec.
- .734 Campaign of 1863
- 1 Missouri, Arkansas, Kansas, Indian Territory, Dep't of Northwest
20 Nov. 1862-31 Dec. 1863
 - 2 Kentucky, middle and east Tennessee, north Alabama, southwest
Virginia 21 Jan.-10 Aug.
Middle Tennessee, or Tullahoma campaign 23 June-7 July
Morgan's Ohio raid 2-26 July
 - 3 Mississippi, west Tennessee 20 Jan.-10 Aug.
 - 4 Siege of Vicksburg, Miss. 19 May-4 July
 - 5 Northern Virginia, West Virginia, Maryland, Pennsylvania
26 Jan.-3 June
 - 6 Chancellorsville, Va. campaign 27 Ap.-6 May
 - 7 West Florida, southern Alabama, southern Mississippi, Louisiana,
Texas, New Mexico 14 May-31 Dec.
Siege of Port Hudson, La. 21 May-8 July
 - 8 North Carolina, Virginia, West Virginia, Maryland, Pennsylvania
Dep't of East 3 June-3 Aug.
 - 9 Battle of Gettysburg, Pa. 1-3 July

DECIMAL CLASSIFICATION

- 973-735 Campaign of 1863, *continued*
- 1 South Carolina, Georgia, middle and east Florida 12 June-31 Dec.
 Operations on Morris island, S. C. 10 July-7 Sep.
 Occupation of Battery Wagner, S. C. 6-7 Sep.
 Bombardment of Fort Sumter, S. C. 17 Aug.-31 Dec.
 Bombardment of Charleston, S. C. 21 Aug.-31 Dec.
 - 3 North Carolina, Virginia, West Virginia, Maryland, Pennsylvania
 4 Aug.-31 Dec.
 Bristoe, Va. campaign 9-22 Oct.
 Mine Run, Va. campaign 26 Nov.-2 Dec.
 - 4 Kentucky, southwest Virginia, Tennessee, Mississippi, north Ala-
 bama, north Georgia 11 Aug.-19 Oct.
 - 5 Chickamauga, Ga. campaign 16 Aug.-22 Sep.
 Battle of Chickamauga, Ga. 19-20 Sep.
 - 6 East Tennessee campaign 16 Aug.-19 Oct.
 - 7 Kentucky, southwest Virginia, Tennessee, Mississippi, north Ala-
 bama, north Georgia 20 Oct.-31 Dec.
 - 8 Knoxville, Tenn. campaign 4 Nov.-23 Dec.
 Siege of Knoxville, Tenn. 17 Nov.-4 Dec.
 - 9 Chattanooga-Ringgold campaign 23-27 Nov.
 Battle of Lookout mountain, Tenn. 24 Nov.
 Battle of Missionary ridge, Tenn. 25 Nov.
- .736 Campaign of 1864
- 1 Kentucky, southwest Virginia, Tennessee, Mississippi, Alabama
 north Georgia 1 Jan.-30 Ap.
 Meridian, Miss. expedition 3 Feb.-6 Mar. •
 Forrest's expedition into west Tennessee and Kentucky
 16 Mar.-14 Ap.
 Capture of Fort Pillow, Tenn. 12 Ap.
 - 2 N. Carolina, Virginia, W. Va. Maryland, Pennsylvania
 1 Jan.-30 Ap.
 Expedition against New Berne, N. C. 28 Jan.-10 Feb.
 Engagement at Morton's Ford, Va. 6-7 Feb.
 Kilpatrick's expedition against Richmond, Va. 28 Feb.-4 Mar.
 - 3 Louisiana, trans-Mississippi 1 Jan.-30 June
 Red river, La. campaign 10 Mar.-22 May
 Camden, Ark. expedition 23 Mar.-3 May
 - 4 South Carolina, Florida, Georgia coast 1 Jan.-13 Nov.
 Charleston, S. C. harbor and vicinity
 Florida expedition 5-22 Feb.
 Engagement at Olustee or Ocean Pond, Fla. 20 Feb.
 - 5 Southeastern Virginia, North Carolina 1 May-12 June
 Engagement at Proctor's Creek and Drewry's Bluff or Fort
 Darling, Va. 12-16 May
 Operations on the Bermuda Hundred, Va. front 17 May-2 June
 Engagement at Petersburg, Va. 9 June
 - 6 Battle of the Wilderness, Va. 5-7 May
 - 7 Operations about Spottsylvania Court-House, Va. 8-21 May
 - 8 Operations at and about Cold Harbor, Va. 31 May-12 June
 - 9 Northern Virginia, West Virginia, Maryland, Pennsylvania
 1 May-3 Aug.
 Engagement at New Market, Va. 15 May
 Lynchburg, Va. campaign 26 May-29 June
 Battle of the Monocacy, Md. 9 July
 Action near Fort Stevens, D. C. 12 July

- 973-737 Campaign of 1864, *continued*
- 1 Northern Georgia 1 May-8 Sep.
Atlanta, Ga. campaign
Battle of Atlanta, Ga. 22 July
 - 2 Kentucky, southwest Virginia, Tennessee, Mississippi, Alabama
north Georgia 1 May-13 Nov.
Engagement at Harrisburg, near Tupelo, Miss. 14-15 July
Operations in Mobile bay, Ala. 2-23 Aug. See 973-754
Engagement at Allatoona, Ga. 5 Oct.
 - 3 Southeastern Virginia, North Carolina 13 June-31 July
Richmond, Va. campaign
Assaults on the Petersburg lines 15-18 June
Explosion of the mine and assault on the crater 30 July
 - 4 Louisiana, trans-Mississippi 1 July-31 Dec.
Price's Missouri expedition 29 Aug.-2 Dec.
 - 5 Southeastern Virginia, North Carolina 1 Aug.-31 Dec.
Richmond, Va. campaign
Expedition to Fort Fisher, N. C. 7-27 Dec.
 - 6 Northern Virginia, West Virginia, Maryland, Pennsylvania
4 Aug.-31 Dec.
 - 7 Shenandoah valley campaign, Va. 7 Aug.-28 Nov.
Battle of Winchester, or the Opequon, Va. 19 Sep.
Battle of Cedar creek, Va. 19 Oct.
 - 8 South Carolina, Georgia, Florida 14 Nov.-31 Dec.
Savannah, Ga. campaign, or Sherman's march to the sea
15 Nov.-21 Dec.
 - 9 Kentucky, southwest Virginia, Tennessee, Mississippi, Alabama,
north Georgia 14 Nov.-23 Jan. 1865
Battle of Franklin, Tenn. 30 Nov.
Battle of Nashville, Tenn. 15-16 Dec.
- .738 Campaign of 1865
- 1 Northern and southeastern Virginia, North Carolina, West Virginia,
Maryland, Pennsylvania 1 Jan.-30 June
 - 2 Richmond, Va. campaign 1 Jan.-3 Ap.
 - 3 Expedition to and capture of Fort Fisher, N. C. 3-17 Jan.
 - 4 Appomattox, Va. campaign 29 Mar.-9 Ap.
Battle of Five Forks, Va. 1 Ap.
Surrender of Gen. Lee 9 Ap.
 - 5 North Carolina, South Carolina, southern Georgia, east Florida
1 Jan.-30 June
Campaign of the Carolinas 1 Jan.-26 Ap.
 - 6 Louisiana, trans-Mississippi 1 Jan.-30 June
 - 7 Kentucky, southwestern Virginia, Tennessee, northern and central
Georgia, Mississippi, Alabama, west Florida 1 Jan.-30 June
Wilson's raid from Chickasaw to Selma, Ala. and Macon, Ga.
22 Mar.-24 Ap.
 - 8 Mobile, Ala. campaign 17 Mar.-4 May
 - 9 Pacific coast 1 Jan. 1861-30 June 1865

DECIMAL CLASSIFICATION

973.74 General military history

.741

Northern side

- 1 Regular army
- 2 Volunteers, quotas
- 3 Bounties
- 4 Drafts
- 5 Negro troops
- 6 Special armies or corps
 - Army of the Cumberland
 - Army of the Potomac
 - 2d army corps
 - 19th army corps etc.
- 7 Special branches or servises
 - Cavalry
 - Artillery
 - Engineers
 - Signal servis
 - Guerrillas
 - Commissariat
- 8 General orders
- 9 Regimental losses

742

Southern side

Guerrillas

.743

Foren elements

Divided like 940

.744-749 Separate states and regimental histories

Divided like 974-979; 973.7444, Massachusetts; 973.7447, New York. Under each state arrange books by the following book numbers

A for official publications

A 1 Adjutant-general's reports

A 2 Lists of soldiers

B-D, General works on the part taken by the state in the conflict

B whole state, C county, D town

E Histories of cavalry regiments

F Hevy artillery

G Light artillery

J-L Infantry

J regiments 1-99

K regiments 100-199

L regiments 200-299

The individual regiment is markt by adding its number after the letter;

E15, 15th. regiment of cavalry; K49, 149th regiment of infantry. When

there are more than 9 regiments o must be prefix to the number for the 1st 10 regiments, J09 9th regiment of infantry

For the border states which also had regiments on the confederate side use similarly P-S

O Special brigades

P Cavalry

Q Hevy artillery

R Light artillery

S Infantry

For those states which past ordinances of secession (see list under 973.713)

reverse these numbers using E-L for confederate regiments and P-S for Union regiments

Special numbers must be arranged for unnumberd and peculiarly numberd regiments and companies

- 973-75 Naval history**
 During the civil war the navy was mainly used as an auxiliary to the army and nearly all naval actions are also described in connection with special campaigns and battles 973.73 and its subdivisions
- .751 **Events of 1861**
 Hatteras inlet, N. C. 28 Aug. See also 973.7316
 Port Royal, S. C. 7 Nov. See also 973.7319
 Belmont, Mo. 7 Nov. See also 973.7315
 Trent affair 8 Nov. See also 973.722
- .752 **Events of 1862**
 Fort Henry, Tenn. 6 Feb. See also 973.7322
 Roanoke island, N. C. 7-8 Feb. See also 973.7324
 Fort Donelson, Tenn. 14 Feb. See also 973.7322
 Monitor and Merrimac 8-9 Mar.
 Island nr 10, Ky. 16 Mar.-8 Ap. See also 973.7325
 New Orleans, La. 18 Ap.-1 May See also 973.7321
 Memphis, Tenn. 6 June See also 973.7325
- .753 **Events of 1863**
 Charleston, S. C. 7 Ap. See also 973.7331
 Vicksburg, Miss. 16 Ap. See also 973.7343
 Grand Gulf, Miss. 29 Ap. See also 973.7343
- .754 **Events of 1864**
 Red river, La. expedition 10 Mar.-22 May See also 973.7361
 Sassacus and Albemarle, Albemarle sound, N. C. 5 May
 See also 973.7365
 Alabama and Kearsarge, off Cherbourg, France 19 June
 Mobile bay, Ala. 5-22 Aug. See also 973.7372
 Fort Fisher, N. C. 24 Dec. See also 973.7375
- .755 **Events of 1865**
 Fort Fisher, N. C. 14-15 Jan. See also 973.7383
- .756 **History of special squadrons or ships**
 Atlantic squadron
 Gulf squadron
- .757 **Confederate navy**
 Including the history of special squadrons or ships
 Alabama
 Shenandoah
 Florida
- .758 **Blockade and blockade running**
- .759 **Privateers**
- .76 **War meetings, celebrations, anniversaries, commemorations**
 See note under 973.36
 For patriotic societies commemorating the civil war see 369.15-.17
- .761 **War meetings**
- .762
- .763 **Flags; presentations of flags; Battle-flag day**
- .764
- .765 **Monuments, memorials** See also 718
- .766
- .767 **Roll of honor** List of ded For national cemeteries, see 719
- .768 **Memorial day**

DECIMAL CLASSIFICATION

- 973.77 Prisons, hospitals, charities, etc.
- .771 Southern prisons, prison life
- 1 Andersonville
- 2 Libby prison
- .772 Northern prisons
- .773 Exchange of prisoners, paroles
- .774
- .775 Medical dep't, surgeons, nurses For military surgery see 617.99
- .776 Hospitals, hospital sketches
- .777 Charities
- Soldiers homes, see 362.8
- Soldiers orphan asylums, see 362.7
- Freedmen's bureau, see 361
- Pensions, See 351.5
- 1 U. S. sanitary commission
- 2 Sanitary fairs
- .778 Religious life, chaplains, revivals
- 1 U. S. Christian commission See also 267.11
- .78 Personal narratives, vindication, secret servis
- Personal narrativs when relating to some special battle or event should be class according to their subject
- .781 Personal narratives, northern side
- Including volumes of G. A. R. papers and Loyal legion
- .782 Personal narratives, southern side
- .783 Army life
- .784 Southern army life, southern home life
- .785 Secret servis, spies
- .786 Southern side
- .79 Illustrativ material
- See note under 973.39
- .791 Poetry
- .792 Drama
- .793 Fiction
- .794 Addresses
- .795 Sermons
- .796 Humor
- .797 Pictures
- Paintings, drawings, caricatures, engraving s, fotografs. sculpture
- .798 Music
- .799 Maps
- .8 Later 19th century 1865-1901
- Period of reconstruction and civil servis reform
- .81 Andrew Johnson 15 Ap. 1865-4 Mar. 1869
- Born 29 Dec. 1808; died 31 July 1875
- 13th amendment abolishing slavery, adopted 18 Dec. 1865
- See also 326.8 and 342.739
- Fenian invasion of Canada 31 May-2 June 1866 See also 971
- Nebraska admitted, 37th state 1 Mar. 1867 See 978.2
- Cession of Alaska by Russia 20 June 1867
- Impeachment of Pres. Johnson Mar.-May 1868 See 351.99
- 14th amendment guaranteeing citizenship, adopted 28 July 1868
- See 342.739

- 973.82 **Ulysses Simpson Grant** 4 Mar. 1869-4 Mar. 1877
 Born 27 Ap. 1822; died 23 July 1885
 Treaty for annexation of Santo Domingo, signed 29 Nov. 1869;
 rejected by senate 30 June 1870 See also 972.93
 15th amendment guaranteeing suffrage, adopted 30 Mar. 1870
 See 324.1 and 342.739
 First provision for civil service reform 3 Mar. 1871 See also 351.6
 Geneva arbitration award 14 Sep. 1872 See 341.6; 973.722; 973.757
 Northwestern or San Juan boundary decision, Emperor William
 I of Germany, arbitrator 23 Oct. 1872
 Crédit mobilier investigation Dec. 1872-Feb. 1873
 Coinage act 12 Feb. 1873 See 332.47
 Modoc war, California Nov. 1872-June 1873
 Financial panic 19-30 Sep. 1873 See 332
 Virginius incident Oct.-Dec. 1873
 Whisky ring 1872-75 See 336.73
 Civil rights act 1 Mar. 1875
 Colorado admitted, 38th state 1 Aug. 1876 See 978.8
 Centennial exposition, Philadelphia 10 May-10 Nov. 1876 See 606
 Electoral commission Feb. 1877
- .83 **Rutherford Birchard Hayes** 4 Mar. 1877-4 Mar. 1881
 Born 4 Oct. 1822; died 17 Jan. 1893
 Halifax fishery award 23 Nov. 1877
 Bland silver act 28 Feb. 1878 See 332.47
 Resumption of specie payment 1 Jan. 1879 See 332.5 and 336.73
- .84 **James Abram Garfield** 4 Mar. 1881-19 Sep. 1881
 Born 19 Nov. 1831; died 19 Sep. 1881
- Chester Alan Arthur** 19 Sep. 1881-4 Mar. 1885
 Born 5 Oct. 1830; died 18 Nov. 1886
 International cotton exposition 5 Oct.-31 Dec. 1881 See 606
 Edmund act to suppress polygamy 22 Mar. 1882 See also 298
 Pendleton civil service reform act 11 Jan. 1883 See 351.6
- .85 **Grover Cleveland** 4 Mar. 1885-4 Mar. 1889
 Born 18 Mar. 1839; died 24 June 1908
 Act regulating the presidential succession 19 Jan. 1886 See 353.03
 Mexican war pension act 29 Jan. 1887 See 351.5
 Act creating Interstate commerce commission 4 Feb. 1887 See 385
 Dependent pension bill vetoed 11 Feb. 1887 See 351.5
 Centennial anniversary of Constitution, Philadelphia, Pa.
 15-17 Sep. 1887
 Act to establish the Labor dep't 13 June 1888 See 331
 Fisheries treaty, signed 15 Feb. 1888; rejected by senate 21 Aug.
 1888
 See 333.9 and 341.273
 Act to make Agriculture dep't an executive dep't 9 Feb. 1889
 See also 630.6 and 353.8

DECIMAL CLASSIFICATION

- 973.86 **Benjamin Harrison** 4 Mar. 1889-4 Mar. 1839
 Born 20 Aug. 1833; died 13 Mar. 1901
 Opening of Oklahoma 2 Ap. 1889 See 976.6
 North Dakota admitted, 39th state 2 Nov. 1889 See 973.4
 South Dakota admitted, 40th state 2. Nov. 1889 See 973.3
 Montana admitted, 41st state 8 Nov 1889 See 978.6
 Washington admitted, 42d state 11 Nov. 1889 See 979.7
 International American conference 2 Oct. 1889-19 Ap. 1890
 See 341.1
 Idaho admitted, 43d state 3 July 1890 See 979.6
 Wyoming admitted, 44th state 10 July 1890 See 978.7
 Sherman silver act, repealing silver act of 1878 14 July 1890
 See 332.47
 McKinley tariff act 1 Oct. 1890 See 337.3
 Controversy with Chile Oct. 1891-July 1892 See 983
 Geary Chinese exclusion act 5 May 1892 See 325.251
 Bering sea arbitration treaty 23 Aug. 1892
 Hawaiian annexation treaty sent to senate, 15 Feb. 1893; with-
 drawn, 9 Mar. 1893 See 996.9
- .87 **Grover Cleveland, second term** 4 Mar. 1893-4 Mar. 1897
 World's Columbian exposition, Chicago 1 May-30 Oct. 1893
 See 606
 Decision of Bering sea court of arbitration 15 Aug. 1893
 Voorhees silver act 1. Nov. 1893 See 332.47
 Wilson tariff act 27 Aug. 1894 See 337.2
 Income tax law decided unconstitutional by U. S. supreme court
 8 Ap. 1895. See 336.24
 U. S. commission on boundary between Venezuela and British
 Guiana appointed 1 Jan. 1896 See 987
 Utah admitted, 45th state 4 Jan. 1896 See 979.2
- .88 **William McKinley** 4 Mar. 1897-14 Sep. 1901
 Born 29 Jan. 1844; died 14 Sep. 1901
 Dingley tariff act 24 July 1897
 Annexation of Hawaii 7 July 1898
- .89 **War with Spain**
 War declared 21 Ap. 1898
 Protocol signd 12 Aug. 1898
 Treaty of peace signd at Paris, 10 Dec. 1898; ratified, 11 April
 1899
- .891 **Political history; causes, results**
 Spanish misrule in Cuba
 Destruction of battleship Maine 15 Feb. 1898
 Acquisition of Philippines and Porto Rico
- .892 **Diplomatic history**
- .893 **Special campaigns and battles**
 Siege of Santiago 22 June-17 July 1898
 Battle of El Caney 1 July 1898
- .894 **General military history**
 May be subdivided like 973.74
- .895 **Naval history**
 Battle of Manila 1 May 1898
 Sinking of the Merrimac 3 June 1898
 Destruction of Cervera's squadron 3 July 1898
- .896 **War meetings, celebrations, anniversaries**
- .897 **Prisons, hospitals, etc.**
- .898 **Personal narrativs**
- .899 **Illustrativ materials**

HISTORY: UNITED STATES

973.91	Early 20th century	1901-
.911	Theodore Roosevelt Born 27 Oct. 1858; died 6 Jan. 1919	14 Sep. 1901-4 Mar. 1909
.912	William Howard Taft Born 15 Sep. 1857	4 Mar. 1909-4 Mar. 1913
.913	Woodrow Wilson Born 28 Dec. 1856 War with Germany 1917-19	4 Mar. 1913-

DECIMAL CLASSIFICATION

974 **Northeastern or North Atlantic New England**

.1 Maine

Admitted 15 Mar. 1820 as 23d state
 Area 33,040 sq. mi. 16 counties Population 742,371 in 1910
 Sobriquets: Pinetree state, Polar Star state Capital: Augusta

Population in 1910

.11	Aroostook	74 664
.12	Somerset	36 301
	Piscataquis	19 887
.13	Penobscot	85 285
.14	Washington	42 905
	Hancock	35 575
.15	Waldo	23 383
	Knox	28 981
	Lincoln	18 216
.16	Kennebec	62 863
.17	Franklin	19 119
	Oxford	36 256
.18	Androscoggin	59 822
	Sagadahoc	18 574
.19	Cumberland	112 014
	<i>Portland</i>	<i>58 571</i>
	York	68 526

.2 New Hampshire

Area 9341 sq. mi. 10 counties Population 430,572 in 1910
 Sobriquet: Granit state Capital: Concord

Population in 1910

.21	Coos	30 753
.22	<i>White mts</i>	
.23	Grafton	41 652
.24	Carroll	16 316
	Belknap	21 304
.25	Strafford	38 951
.26	Rockingham	52 188
.27	Merrimac	53 335
	Sullivan	19 337
.28	Hillsboro	126 072
.29	Cheshire	30 659

.3 Vermont

Area 9564 sq. mi. 14 counties Population 355,956 in 1910
 Sobriquet: Green Mt state Capital: Montpelier

Population in 1910

.31	Grand Isle	3 761
	Franklin	29 866
	Chittenden	42 447
.32	Orleans	23 337
	Essex	7 384
.33	Caledonia	26 031
	Lemoille	12 585
.34	Washington	41 702
.35	Addison	20 010
.36	Orange	18 703
	Windsor	33 681
.37	Rutland	48 139
.38	Bennington	21 378
.39	Windham	26 932

974.4

Massachusetts

Area 8266 sq. mi. 14 counties
 Population 3,366,416 in 1910
 Sobriquet: Bay state Capital: Boston

Population in 1910

.41	Berkshire	105 259	
.42	Franklin	43 600	
	Hampshire	63 327	
	Hampden	231 369	
.43	Worcester	399 657	
.44	Middlesex	669 915	
.45	Essex	436 477	
.46	Suffolk	731 388	
	<i>Boston</i>		670 585
.47	Norfolk	187 506	
.48	Plymouth	144 337	
	Bristol	318 573	
.49	Barnstable	27 542	
	Dukes	4 504	
	Nantucket	2 962	

.5 Rhode Island

Area 1248 sq. mi. 5 counties
 Population 542,610 in 1910
 Sobriquet: Little Rhody Capital: Providence

Population in 1910

.51	Providence	424 353	
.52	<i>Providence (city)</i>		224 326
.53	<i>Pawtucket</i>		51 622
.54	Kent	36 378	
.55	Bristol	17 602	
.56	Newport	39 335	
.57	<i>Newport (city)</i>		27 149
.58	<i>Block Island</i>		
.59	Washington	24 942	

.6 Connecticut

Area 4965 sq. mi. 8 counties
 Population 1,114,756 in 1910
 Sobriquet: Wooden Nutmeg state Capital: Hartford

Population in 1910

.61	Litchfield	70 260	
.62	Hartford	250 182	
.63	<i>Hartford (city)</i>		98 915
.64	Tolland	26 459	
	Windham	48 361	
.65	New London	91 253	
.66	Middlesex	45 637	
.67	New Haven	337 282	
.68	<i>New Haven (city)</i>		133 605
.69	Fairfield	245 322	

DECIMAL CLASSIFICATION

974.7

New York

Area 49,204 sq. mi. 61 counties (exclusiv of Bronx)
 Population 9,113,614 in 1910
 Sobriquet: Empire state Capital: Albany

Population in 1910

.71	<i>New York</i> (city)	4 766 883	
.72	Vicinity of New York city		
.721	Long Island		2 098 460
.722	Kings county	1 634 351	
.723	<i>Brooklyn</i>		1 634 351
.724	Queens county	284 041	
5	Nassau " "	83 930	
.725	Suffolk " "	96 138	
.726	Richmond " Staten Island	85 969	
.727	Westchester " "	283 055	
5	<i>Bronx boro</i> (and county)	430 980	
.728	Rockland county	46 873	
.73	Southeast counties		
.731	Orange, <i>West Point</i>	116 001	
.732	Putnam	14 665	
.733	Dutchess	87 661	
.734	Ulster	91 769	
.735	Sullivan	33 808	
.736	Delaware	45 575	
.737	Green	30 214	
.738	<i>Catskill mts</i>		
.739	Columbia	43 658	
.74	Middle east counties		
.741	Rensselaer	122 276	
	<i>Troy</i>		76 813
.742	Albany	173 666	
.743	<i>Albany</i> (city)		100 253
.744	Schenectady	88 235	
.745	Schoharie	23 855	
.746	Montgomery	57 567	
.747	Fulton	44 534	
.748	Saratoga	61 917	
.749	Washington	47 778	
.75	Northern counties		
.751	Warren	32 223	
	<i>Lake George</i>		
.752	Hamilton	4 373	
.753	Essex	33 458	
	<i>Adirondaks</i>		
.754	Clinton	48 230	
	<i>Lake Champlain</i>		
.755	Franklin	45 717	
.756	St Lawrence	89 005	
.757	Jefferson	80 382	
.758	<i>Thousand Islands</i>		
.759	Lewis	24 849	

HISTORY: UNITED STATES

New York

		<i>Population in 1910</i>	
974.76	North central counties		
.761	Herkimer	56	356
.762	Oneida	154	157
.763	<i>Utica</i>		74 419
.764	Madison	39	289
.765	Onondaga	200	298
.766	<i>Syracuse</i>		137 249
.767	Oswego	71	664
.768	Cayuga	67	106
.769	Seneca	26	972
.77	South central counties		
.771	Tompkins	33	647
.772	Cortland	29	249
.773	Chenango	35	575
.774	Otsego	47	216
.775	Broome	78	809
.776	<i>Binghamton</i>		48 443
.777	Tioga	25	624
.778	Chemung	54	662
.779	<i>Elmira</i>		37 176
.78	West central counties		
.781	Schuyler	14	004
.782	Yates	18	642
.783	Steuben	83	362
.784	Alleghany	41	412
.785	Livingston	38	037
.786	Ontario	52	286
.787	Wayne	50	179
.788	Monroe	283	212
.789	<i>Rochester</i>		218 149
.79	Western counties		
.791	Orleans	32	000
.792	Genesee	37	615
.793	Wyoming	31	880
.794	Cattaraugus	65	919
.795	Chautauqua	105	126
.796	Erie	528	985
.797	<i>Buffalo</i>		423 715
.798	Niagara	92	036
.799	<i>Niagara Falls</i>		30 445

DECIMAL CLASSIFICATION

974.8

Pennsylvania

Area 45,126 sq. mi. 68 counties

Population 7,665,111 in 1910

Sobriquet: Keystone state Capital: Harrisburg

.81	Southeast counties	Philadelphia and Chester group	
		<i>Population in 1910</i>	
.811	Philadelphia (co. and city)	1	549 008
.812	Montgomery		169 590
.813	Chester		109 213
.814	Delaware		117 906
.815	Lancaster		167 029
.816	Berks		183 222
.817	Schuylkill		207 894
.818	Dauphin		136 152
.819	Lebanon		59 565
.82	Eastern counties	Bucks group	
.821	Bucks		76 530
.822	Northampton		127 667
.823	Wayne		29 236
.824	Pike		8 033
.825	Monroe		22 941
.826	Carbon		52 846
.827	Lehigh		118 832
.83	Northeast counties	Northumberland group	
.831	Northumberland		111 420
.832	Luzerne		343 186
.833	<i>Wilkesbarre</i>		67 105
.834	Susquehanna		37 746
.835	Wyoming		15 509
.836	Lackawanna		259 570
.837	<i>Scranton</i>		129 867
.838	Columbia		48 467
.839	Montour		14 868
.84	Southeast central counties	Cumberland group	
.841	York		136 405
.842	Adams		34 319
.843	Cumberland		54 479
.844	Franklin		59 775
.845	Perry		24 136
.846	Mifflin		27 785
.847	Juniata		15 013
.848	Union		16 249
.849	Snyder		16 800
.85	Northeast central counties	East Lycoming group	
.851	Lycoming		80 813
.852			
.853	Center		43 424
.854	Clinton		31 545
.855	Potter		29 729
.856	Tioga		42 829
.857	Bradford		54 526
.858			
.859	Sullivan		11 293

Pennsylvania

974.86	Northwest central counties	West Lycoming group	
.861	Clearfield	93 768	
.862	Jefferson	63 090	
.863	McKean	47 868	
.864			
.865	Elk	35 871	
.866	Cameron	7 644	
.867	Warren	39 573	
.868	Forest	9 435	
.869	Clarion	36 638	
.87	Southwest central counties	Bedford group	
.871	Bedford	38 879	
.872	Fulton	9 703	
.873	Huntington	38 304	
.874			
.875	Blair	108 858	
.876	<i>Altoona</i>		52 127
.877	Cambria	166 131	
.878			
.879	Somerset	67 717	
.88	Southwest counties	Westmoreland group	
.881	Westmoreland	231 304	
.882	Washington	143 680	
.883	Greene	28 882	
.884	Fayette	167 449	
.885	Allegheny	1 018 763	
.886	<i>Pittsburg</i>		533 905
.887	<i>Allegheny City</i>		
	Annex to Pittsburg in 1907		
.888	Armstrong	67 880	
.889	Indiana	66 210	
.89	Northwest counties	Allegheny group	
.891	Butler	72 689	
.892	Beaver	78 353	
.893	Lawrence	70 032	
.894			
.895	Merger	77 699	
.896	Venango	56 359	
.897	Crawford	61 565	
.898			
.899	Erie	115 517	

.9 New Jersey

Area 8224 sq. mi. 21 counties
 Population 2,537,167 in 1910
 Sobriquet: Jersey Blue state Capital: Trenton

.91	<u>East Jersey</u>	<i>Population in 1910</i>	
.92	Northern counties		
.921	Bergen	138 002	
.922			
.923	Passaic	215 902	
.924	<i>Paterson</i>		125 600
.925			
.926	Hudson	537 231	
.927	<i>Jersey City</i>		267 779
.928	<i>Hoboken</i>		70 324

DECIMAL CLASSIFICATION

New Jersey

974.93	Central counties		
.931	Essex	512 866	
.932	<i>Newark</i>		347 469
.933	<i>Orange</i>		29 630
.934			
.935			
.936	Union	140 197	
.937	<i>Elizabeth</i>		73 409
.938	<i>Rahway</i>		9 337
.94	Southern counties		
.941	Middlesex	114 426	
.942	<i>New Brunswick</i>		23 388
.943			
.944	Somerset	38 820	
.945			
.946	Monmouth	94 734	
.947			
.948	Ocean	21 318	
.95	<u>West Jersey</u>		
.96	Central counties		
.961	Burlington	66 565	
.962			
.963			
.964			
.965	Mercer	125 657	
.966	<i>Trenton</i>		96 815
.967	<i>Princeton</i>		5 136
.97	Northern counties		
.971	Hunterdon	33 569	
.972	<i>Raritan</i>		3 672
.973			
.974	Morris	74 704	
.975			
.976	Sussex	26 781	
.977			
.978	Warren	43 187	
.98	Upper southern counties		
.981	Gloucester	37 368	
.982			
.983			
.984	Atlantic	71 894	
.985			
.986			
.987	Camden	142 029	
.988	<i>Camden (city)</i>		94 538
.99	Lower southern counties		
.991	Salem	26 999	
.992	<i>Salem City</i>		6 614
.993			
.994	Cumberland	55 153	
.995	<i>Bridgeton</i>		14 209
.996			
.997			
.998	Cape May	19 145	

975 Southeastern or South Atlantic

Including general works on the South

.1 Delaware

Area 1965 sq. mi.

Population 202,322 in 1910 3 counties

Sobriquets: Blue Hen state, Diamond state Capital: Dover

Population in 1910

.11	Newcastle	123 188	
.12	<i>Wilmington</i>		87 411
.14	Kent	32 721	
.17	Sussex	46 413	

.2 Maryland

Area 12,327 sq. mi.

Population 1,295,346 in 1910 23 counties and Baltimore city

Sobriquet: Old Line state Capital: Annapolis

.21 Eastern Maryland

.221	Worcester	21 841	
.223	Somerset	26 455	
.225	Wicomico	26 815	
.227	Dorchester	28 669	
.231	Caroline	19 216	
.232	Talbot	19 620	
.234	Queen Anne	16 839	
.236	Kent	16 957	
.238	Cecil	23 759	

.24 Southern Maryland

.241	St Mary	17 030	
.244	Calvert	10 325	
.247	Charles	16 386	
.251	Prince George	36 147	
.255	Anne Arundel	39 553	
.256	<i>Annapolis</i>		8 609
.26	<i>Baltimore (city)</i>	558 485	

.27 North central

.271	Baltimore	122 349	
.274	Harford	27 965	
.277	Carroll	33 934	
.281	Howard	16 106	
.284	Montgomery	32 089	
.287	Frederick	52 673	
.288	<i>Frederick (city)</i>		10 411

.29 Western

.291	Washington	49 617	
.292	<i>Hagerstown</i>		15 507
.294	Allegany	62 411	
.295	<i>Cumberland</i>		21 839
.297	Garrett	20 105	

.3 District of Columbia, Washington (*city*)

Area 70 sq. mi.

Population (Washington) 331,069 in 1910

DECIMAL CLASSIFICATION

975.4 West Virginia

19 June 1863 admitted as 35th state Area 24,780 sq. mi.

Population 1,221,119 in 1910 55 counties

Sobriquet: Panhandle state Capital: Charleston

OUTLINE

- .41 Ohio valley
- .411 Northern Panhandle
- .42 Little Kanawha valley
- .43 Kanawha valley
- .44 Southwestern border counties
- .441 Guyandotte valley
- .446 Tug valley
- .45 Central plateau
- .451 Monongahela valley
- .46 Central counties
- .464 Elk valley
- .468 Gauley valley
- .47 New River valley
- .48 Alleghany crest Mountain counties
- .481 Cheat valley
- .486 Greenbrier valley
- .49 Eastern Panhandle Potomac valley

.41 Ohio valley

.411 Northern Panhandle

Population 1910

.412	Hancock	10 465	
.413	Brooke	11 068	
.414	Ohio	57 572	
.415	Wheeling		41 641
.416	Marshall	32 388	
.417			
.418	Wetzel	23 855	
.419	Tyler	16 211	
.42	Little Kanawha valley		
.421	Pleasants	8 074	
.422	Wood	38 001	
.423	Parkersburg		17 842
.424	Ritchie	17 875	
.425			
.426	Wirt	9 047	
.427	Gilmer	11 379	
.428			
.429	Calhoun	11 258	
.43	Kanawha valley		
.431	Jackson	20 956	
.432			
.433	Mason	23 019	
.434			
.435	Putnam	18 587	
.436	Roane	21 543	
.437	Kanawha	81 457	
.438	Charleston		22 006
.439	Boone	10 331	

West Virginia: Ohio valley

975.44	Southwestern border counties		
.441	Guyandotte valley	<i>Population 1910</i>	
.442	Cabell	46 685	
.4421	<i>Huntington</i>		31 161
.443	Lincoln	20 491	
.444	Logan	14 476	
.445	Wyoming	10 392	
.446	Tug valley		
.447	Wayne	24 081	
.448	Mingo	19 431	
.449	McDowell	47 856	
.45	Central plateau		
.451	Monongahela valley		
.452	Monongalia	24 334	
.453	<i>Morgantown</i>		9 150
.454	Marion	42 794	
.455	Taylor	16 554	
.456	Doddridge	12 672	
.457	Harrison	48 381	
.458	<i>Clarksburg</i>		9 201
.459	Barbour	15 858	
.46	Central counties		
.461	Lewis	18 281	
.462	Upshur	16 629	
.464	Elk valley		
.465	Webster	9 680	
.466	Braxton	23 023	
.467	Clay	10 233	
.468	Gauley valley		
.469	Nicholas	17 699	
.47	New River valley		
.471	Fayette	51 903	
.473	Raleigh	25 633	
.474	Mercer	38 371	
.476	Summers	18 420	
.478	Monroe	13 055	
.48	Alleghany crest	Mountain counties	
.481	Cheat valley	<i>Population 1910</i>	
.482	Preston	26 341	
.483	Tucker	18 675	
.484			
.485	Randolph	26 028	
.486	Greenbrier valley		
.487	Pocahontas	14 740	
.488	Greenbrier	24 833	
.489	<i>White Sulphur Springs</i>		338

DECIMAL CLASSIFICATION

West Virginia

975.49	Eastern Panhandle	Potomac valley
.491	Pendleton	9 349
.492	Grant	7 838
.493	Hardy	9 163
.494	Mineral	16 674
.495	Hampshire	11 694
.496	Morgan	7 848
.497	Berkeley	21 999
.498		
.499	Jefferson	15 889

.5 Virginia

17 Ap. 1861 seceded; 26 Jan. 1870 readmitted Area 40,262 sq. mi.
 Population 2,061,612 in 1910 100 counties
 Sobriquets: Old Dominion, Mother of Presidents Capital: Richmond

.6 North Carolina

20 May 1861 seceded; 25 June 1868 readmitted Area 48,740 sq. mi.
 Population 2,206,287 in 1910 98 counties
 Sobriquet: Old North state Capital: Raleigh

.7 South Carolina

20 Dec. 1860 seceded; 25 June 1868 readmitted Area 30,495 sq. mi.
 Population 1,515,400 in 1910 43 counties
 Sobriquet: Palmetto state Capital: Columbia

.8 Georgia

19 Jan. 1861 seceded; 25 June 1868 readmitted Area 58,725 sq. mi.
 Population 2,609,121 in 1910 146 counties
 Sobriquet: Cracker state Capital: Atlanta

.9 Florida

1512 discovered by Ponce de Leon; 1565 settled by Spaniards; 22 Feb. 1819
 bought of Spain
 30 Mar. 1822 organized as territory
 3 Mar. 1845 admitted as 27th state
 10 Jan. 1861 seceded; 25 June 1868 readmitted Area 54,861 sq. mi.
 Population 752,619 in 1910 47 counties
 Sobriquets: Everglade, Gulf state Capital: Tallahassee

976 South Central or Gulf

.1 Alabama

1702 settled by French
 14 Dec. 1819 admitted as 22d state
 11 Jan. 1861 seceded; 25 June 1868 readmitted Area 51,279 sq. mi.
 Population 2,138,093 in 1910 67 counties
 Sobriquet: Land of Flowers Capital: Montgomery

.2 Mississippi

7 Ap. 1798 organized as territory; 10 Dec. 1817 admitted as 20th state
 9 Jan. 1861 seceded; 17 Feb. 1870 readmitted Area 46,362 sq. mi.
 Population 1,797,114 in 1910 79 counties
 Sobriquet: Bayou state Capital: Jackson

.3 Louisiana

1699 settled by French 30 Ap. 1803 bought of France 1 Oct. 1804 organized as Territory of Orleans
 8 Ap. 1812 Louisiana admitted as 18th state
 26 Jan. 1861 seceded; 25 June 1868 readmitted Area 45,409 sq. mi.
 Population 1,656,388 in 1910 60 parishes
 Sobriquets: Pelican state, Creole state Capital: Baton Rouge

976 South Central or Gulf

.4 **Texas**
 20 Dec. 1835 independence from Mexico declared; 2 Mar. 1836 republic formed
 29 Dec. 1845 annexed as 28th state
 1 Feb. 1861 seceded; 30 Mar. 1870 readmitted Area 262,398 sq. mi.
 Population 3,896,542 in 1910 245 counties
 Sobriquet: Lone Star state Capital: Austin

.5
 .6 **Indian Territory Oklahoma**
 30 June 1834 assigned to Indians (part of Louisiana purchase)
 Area 30,790 sq. mi.
 Population 800,000 in 1906
Oklahoma organized as separate territory 2 May 1890
 16 Nov. 1907 admitted as 46th state Area 69,414 sq. mi.
 Sobriquet: Sooner state Capital: Guthrie

.7 **Arkansas**
 4 June 1812 included in Missouri territory; 2 Mar. 1819 organized as Arkansas territory
 15 June 1836 admitted as 25th state
 6 May 1861 seceded; 22 June 1868 readmitted Area 52,525 sq. mi.
 Population 1,574,449 in 1910 75 counties
 Sobriquet: Bear state Capital: Little Rock

.8 **Tennessee**
 1769 settled from Virginia; 14 Dec. 1784 organized by settlers as state of Franklin (or Frankland)
 1 June 1796 admitted as 16th state
 8 June 1861 seceded; 24 July 1866 readmitted Area 41,687 sq. mi.
 Population 2,184,789 in 1910 96 counties
 Sobriquet: Big Bend state Capital: Nashville

.9 **Kentucky**
 1775 settled by Daniel Boone; 29 May 1790 territory organized
 1 June 1792 admitted as 15th state Area 40,181 sq. mi.
 Population 2,289,905 in 1910 119 counties
 Sobriquet: Blue Grass state Capital: Frankfort

977 North Central or Lake

.I **Ohio**
 19 Feb 1803 admitted as 17th state Area 40,760 sq. mi.
 Population 4,767,121 in 1910 88 counties
 Sobriquet: Buckeye state Capital: Columbus

.II Northwest counties

		<i>Population 1910</i>	
.111	Williams	25	198
5	Fulton	23	914
.112	Lucas	192	728
.113	Toledo		168 497
.114	Defiance	24	498
.115	Henry	25	119
.116	Wood	46	330
.117	Paulding	22	730
.118	Putnam	29	972
.119	Hancock	37	860
I	Findlay		14 858

DECIMAL CLASSIFICATION

Ohio

977.12	Central north counties	<i>Population 1910</i>	
.121	Ottawa	22 360	
4	Sandusky	35 171	
.122	Erie	38 327	
- 1	<i>Sandusky (city)</i>		19 989
.123	Lorain	76 037	
1	<i>Lorain (city)</i>		28 881
.124	Seneca	42 421	
1	<i>Tiffin</i>		11 894
.125	Huron	34 206	
.126	Wyandot	20 760	
.127	Crawford	34 036	
.128	Richland	47 667	
1	<i>Mansfield</i>		20 768
.129	Ashland	22 975	
.13	Northeast counties		
.131	Cuyahoga	637 425	
.132	<i>Cleveland</i>		560 663
.133	Lake	22 927	
6	Geauga	14 670	
.134	Ashtabula	59 547	
1	<i>Ashtabula (city)</i>		18 266
.135	Medina	23 598	
.136	Summit	108 253	
1	<i>Akron</i>		69 067
.137	Portage	30 307	
.138	Trumbull	52 766	
.139	Mahoning	116 151	
1	<i>Youngstown</i>		79 066
.14	Central west counties		
.141	Van Wert	29 119	
5	Mercer	27 536	
.142	Allen	56 580	
1	<i>Lima</i>		30 508
.143	Auglaize	31 246	
.144	Hardin	30 407	
.145	Shelby	24 663	
.146	Logan	30 084	
5	Champaign	26 351	
.147	Darke	42 933	
.148	Miami	45 047	
1	<i>Piqua</i>		13 388
.149	Clark	66 435	
1	<i>Springfield</i>		46 921

Ohio

		<i>Population 1910</i>	
977.15	Central counties		
.151	Marion	33 971	
1	Marion (city)		18 232
6	Morrow	16 815	
.152	Knox	30 181	
.153	Union	21 871	
5	Delaware	27 182	
.154	Licking	55 590	
1	Newark		25 494
.155	Madison	19 902	
.156	Franklin	221 567	
.157	Columbus		181 511
.158	Fairfield	39 201	
.159	Perry	35 396	
.16	Central east counties		
.161	Wayne	38 058	
.162	Stark	122 987	
1	Canton		50 217
3	Massillon		13 879
.163	Columbiana	76 619	
1	East Liverpool		20 387
.164	Holmes	17 909	
.165	Coshocton	30 121	
.166	Tuscarawas	57 035	
.167	Carroll	15 761	
.168	Harrison	19 076	
.169	Jefferson	65 423	
1	Steubenville		22 391
.17	Southwest counties		
.171	Preble	23 834	
.172	Montgomery	163 763	
.173	Dayton		116 577
.174	Greene	29 733	
.175	Butler	70 271	
1	Hamilton (city)		35 279
.176	Warren	24 497	
5	Clinton	23 680	
.177	Hamilton	460 732	
.178	Cincinnati		363 591
.179	Clermont	29 551	
6	Brown	24 832	

DECIMAL CLASSIFICATION

Ohio

977.18 Central south counties

Population 1910

.181	Fayette	21 744	
5	Pickaway	26 158	
.182	Ross	40 069	
1	<i>Chillicothe</i>		14 508
.183	Hocking	23 650	
7	Vinton	13 096	
.184	Highland	28 711	
7	Pike	15 723	
.185	Jackson	30 791	
.186	Adams	24 755	
.187	Scioto	48 463	
1	<i>Portsmouth</i>		23 481
.188	Lawrence	39 488	
1	<i>Ironton</i>		13 147
.189	Gallia	25 745	
.19	Southeast counties		
.191	Muskingum	57 488	
1	<i>Zanesville</i>		28 026
.192	Guernsey	42 716	
.193	Belmont	76 856	
.194	Morgan	16 097	
.195	Noble	18 601	
.196	Monroe	24 244	
.197	Athens	47 798	
.198	Washington	45 422	
1	<i>Marietta</i>		12 923
.199	Meigs	25 594	

977.2 **Indiana**

1809 Indiana territory with present boundaries establish
 11 Dec. 1816, Indiana admitted as 19th state
 Population 2,700,876 in 1910 92 counties Area 36,350 sq. mi.
 Soubriquet: Hoosier state Capital: Indianapolis

.21	Southeast counties	<i>Population in 1910</i>	
.211	Dearborn	21 396	
.212	Ohio	4 329	
	Switzerland	9 914	
.213	Jefferson	20 483	
.214	Ripley	19 452	
.215	Franklin	15 335	
.216	Decatur	18 793	
.217	Jennings	14 203	
.218	Scott	8 323	
	Clark	30 260	
	<i>Jeffersonville</i>		10 412
.219	Floyd	30 293	
	<i>New Albany</i>		20 629
.22	Central south counties		
.221	Harrison	20 232	
.222	Washington	17 445	
.223	Jackson	24 727	
.224	Bartholomew	24 813	
.225	Brown	7 975	
	Monroe	23 426	
.226	Lawrence	30 625	
.227	Orange	17 192	
.228	Crawford	12 057	
.229	Perry	18 078	
.23	Southwest counties		
.231	Spencer	20 676	
.232	Warrick	21 911	
.233	Vanderburg	77 438	
	<i>Evansville</i>		69 647
.234	Posey	21 670	
.235	Gibson	30 137	
.236	Pike	19 684	
.237	Dubois	19 843	
.238	Martin	12 950	
	Daviess	27 747	
.239	Knox	39 183	
.24	West central counties		
.241	Sullivan	32 439	
.242	Greene	36 873	
.243	Owen	14 053	
.244	Clay	32 535	
.245	Vigo	87 930	
	<i>Terre Haute</i>		58 157
.246	Vermilion	18 865	
	Parke	22 214	
.247	Fountain	20 439	
.248	Montgomery	29 296	
.249	Putnam	20 520	

DECIMAL CLASSIFICATION

Indiana

977.25 Central counties		Population 1910	
.251	Morgan	21 182	
	Johnson	20 394	
.252	Marion	263 661	
	<i>Indianapolis</i>		233 650
.253	Hendricks	20 840	
.254	Boone	24 673	
.255	Clinton	26 674	
	Tipton	17 459	
.256	Hamilton	27 026	
.257	Madison	65 224	
	<i>Anderson</i>		22 476
.258	Hancock	19 030	
.259	Shelby	26 802	
.26	East central counties		
.261	Rush	19 349	
.262	Fayette	14 415	
	Union	6 260	
.263	Wayne	43 757	
	<i>Richmond</i>		22 324
.264	Henry	29 758	
.265	Delaware	51 414	
	<i>Muncie</i>		24 005
.266	Randolph	29 013	
.267	Jay	24 961	
.268	Blackford	15 820	
.269	Grant	51 426	
.27	Northeast counties		
.271	Huntington	28 982	
.272	Wells	22 418	
.273	Adams	21 840	
.274	Allen	93 386	
	<i>Fort Wayne</i>		63 933
.275	Whitley	16 892	
.276	Noble	24 009	
.277	Dekalb	25 054	
.278	Steuben	14 274	
.279	Lagrange	15 148	
.28	Central north counties		
.281	Elkhart	49 008	
.282	Kosciusko	27 936	
.283	Wabash	26 926	
.284	Miami	29 350	
.285	Howard	33 177	
.286	Cass	36 368	
	<i>Logansport</i>		19 050
.287	Fulton	16 879	
.288	Marshall	24 175	
.289	St Joseph	84 312	
	<i>South Bend</i>		53 684

Indiana

977.29 Northwest counties		Population 1910	
.291	Laporte	45 797	
	<i>Michigan City</i>		19 027
.292	Starke	10 567	
	Pulaski	13 312	
.293	White	17 602	
.294	Carroll	17 970	
.295	Tippecanoe	40 063	
	<i>Lafayette</i>		20 081
.296	Warren	10 899	
.297	Benton	12 688	
	Newton	10 504	
	Jasper	13 044	
.298	Porter	20 540	
.299	Lake	82 864	

.3 Illinois

1809 Illinois territory formed 3 Dec. 1818 Illinois admitted
 Area 56,043 sq. mi. Population 5,638,591 in 1910 102 counties
 Sobriquet: Prairie state Capital: Springfield

Population 1910

.31	Cook	2 405 233	
	<i>Chicago</i>		2 135 283
.32	Northwest counties		
.321	Lake	55 058	
.322	McHenry	32 509	
.323	Kane	91 862	
	<i>Aurora</i>		29 807
	<i>Elgin</i>		25 976
.324	Dupage	33 432	
.325	Will	84 371	
	<i>Joliet</i>		34 670
.326	Kendall	10 777	
	Grundy	24 161	
.327	Lasalle	90 132	
	<i>Streator</i>		14 253
.328	Dekalb	33 457	
.329	Boone	15 481	
.33	Northwest counties		
.331	Winnebago	63 153	
	<i>Rockford</i>		45 401
.332	Ogle	27 864	
.333	Stephenson	36 821	
	<i>Freeport</i>		17 567
.334	Jo Daviess	22 657	
	Carroll	18 035	
.335	Whiteside	34 507	
.336	Lee	27 750	
.337	Bureau	43 975	
	Putnam	7 561	
.338	Henry	41 736	
.339	Rock Island	70 404	
	<i>Rock Island (city)</i>		24 335
	<i>Moline</i>		24 199
	Mercer	19 723	

DECIMAL CLASSIFICATION

Illinois

		<i>Population 1910</i>	
977.34	West central counties		
.341	Henderson	9 724	
	Warren	23 313	
.342	McDonough ^h	26 887	
.343	Hancock	30 638	
.344	Adams	64 588	
	<i>Quincy</i>		36 587
.345	Pike	28 622	
	Scott	10 067	
.346	Morgan	34 420	
	<i>Jacksonville</i>		15 326
	Cass	17 372	
.347	Brown	10 397	
	Schuyler	14 852	
.348	Fulton	49 549	
.349	Knox	46 159	
.35	Central counties		
.351	Stark	10 098	
	Marshall	15 679	
.352	Pecoria	100 255	
	<i>Pecoria (city)</i>		66 950
.353	Woodford	20 506	
.354	Tazewell	34 027	
.355	Mason	17 377	
	Menard	12 796	
.356	Sangamon	91 024	
	<i>Springfield</i>		51 678
.357	Logan	30 216	
.358	Macon	54 186	
	<i>Decatur</i>		31 140
	Dewitt	18 906	
.359	McLean	68 008	
	<i>Bloomington</i>		25 768
.36	East central counties		
.361	Livingston	40 465	
.362	Ford	17 096	
.363	Kankakee	40 752	
.364	Iroquois	35 543	
.365	Vermilion	77 996	
	<i>Danville</i>		27 871
.366	Champaign	51 829	
.367	Piatt	16 376	
	Moultrie	14 630	
.368	Douglas	19 591	
.369	Edgar	27 336	

Illinois

977-37	Southeast counties	Population 1910	
.371	Clark	23 517	
.372	Coles	34 517	
.373	Cumberland	14 281	
.374	Jasper	18 157	
.375	Crawford	26 281	
.376	Lawrence	22 661	
.377	Richland	15 970	
.378	Wabash	14 913	
.379	1 Edwards	10 049	
	2 Wayne	25 697	
	3 Jefferson	29 111	
	4 Marion	35 094	
	5 Clay	18 661	
	6 Effingham	20 055	
	7 Fayette	28 075	
	8 Shelby	31 693	
.38	Southwest counties		
.381	Christian	34 594	
.382	Montgomery	35 311	
.383	Macoupin	50 685	
.384	Greene	22 363	
.385	Calhoun	8 610	
	Jersey	13 954	
.386	Madison	89 847	
	<i>Alton</i>		17 528
.387	Bond	17 075	
	Clinton	22 832	
.388	Washington	18 759	
.389	St Clair	119 870	
	<i>Belleville</i>		21 122
	<i>East St Louis</i>		58 547
.39	Southern counties		
.391	Monroe	13 508	
.392	Randolph	29 120	
.393	Perry	22 088	
.394	Franklin	25 943	
.395	Hamilton	18 227	
.396	White	23 052	
.397	Gallatin	14 628	
.398	Hardin	7 015	
.399	1 Pope	11 215	
	2 Saline	30 204	
	3 Williamson	45 098	
	4 Jackson	35 143	
	5 Union	21 856	
	6 Johnson	14 331	
	7 Massac	14 200	
	8 Pulaski	15 650	
	9 Alexander	22 741	
	<i>Cairo</i>		14 540

DECIMAL CLASSIFICATION

977.4 Michigan

1805 Organized as separate territory
 1837 Admitted
 Area 78,915 sq. mi.
 Population 2,810,173 in 1910
 Sobriquets: Wolverine, Lake state
 83 counties
 Capital: Lansing

Lower peninsula

.41	Southwest counties	<i>Population 1910</i>	
.411	Berrien	53 622	
.412	Cass	20 624	
.413	Van Buren	33 185	
.414	Allegan	39 819	
.415	Ottawa	45 301	
.416	Barry	22 633	
.417	Kalamazoo	60 427	
.418	<i>Kalamazoo (city)</i>		39 437
.419	St Joseph	25 499	
.42	Central south counties		
.421	Branch	25 605	
.422	Calhoun	56 638	
	<i>Battle Creek</i>		25 267
.423	Eaton	30 490	
.424	Clinton	23 129	
.425	Shiawassee	33 246	
.426	Ingham	53 310	
.427	<i>Lansing</i>		31 229
.428	Jackson	53 426	
	<i>Jackson (city)</i>		31 433
.429	Hillsdale	29 673	
.43	Southeast counties		
.431	Lenawee	47 907	
.432	Monroe	32 917	
.433	Wayne	531 591	
.434	<i>Detroit</i>		465 766
.435	Washtenaw	44 714	
.436	Livingston	17 736	
.437	Genesee	64 555	
.438	Oakland	49 576	
.439	Macomb	32 606	
.44	Southeast central counties		
.441	St Clair	52 341	
	<i>Port Huron</i>		18 863
.442	Lapeer	26 033	
.443	Sanilac	33 930	
.444	Huron	34 758	
.445	Tuscola	34 913	
.446	Saginaw	89 290	
	<i>Saginaw (city)</i>		50 510
.447	Bay	68 238	
	<i>Bay City</i>		45 166
	<i>West Bay City</i>		
	Annex to Bay City in April 1905		
.448	Midland	14 005	
.449	Gratiot	28 820	

Michigan

977-45 Southwest central counties

		<i>Population 1910</i>	
.451	Isabella	23 029	
.452	Mecosta	19 466	
.453	Montcalm	32 069	
.454	Ionia	33 550	
.455	Kent	159 145	
.456	<i>Grand Rapids</i>		<i>112 571</i>
.457	Muskegon	40 577	
	<i>Muskegon (city)</i>		<i>24 062</i>
.458	Newaygo	19 220	
.459	Oceana	18 379	

.46 Northwest central counties

.461	Mason	21 832	
.462	Manistec	26 688	
	<i>Manistec (city)</i>		<i>12 381</i>
.463	Benzie	10 638	
	Leelanau	10 608	
.464	Grand Traverse	23 784	
.465	Kalkaska	8 097	
.466	Missaukee	10 606	
.467	Wexford	20 769	
.468	Lake	4 939	
.469	Osceola	17 889	

.47 Northeast central counties

.471	Clare	9 240	
.472	Gladwin	8 413	
.473	Arenac	9 640	
.474	Iosco	9 753	
.475	Ogemaw	8 907	
.476	Roscommon	2 274	
.477	Crawford	3 934	
.478	Oscoda	2 027	
.479	Alcona	5 703	

.48 Northern counties

.481	Alpena	19 965	
.482	Presque Isle	11 249	
.483	Montmorency	3 755	
.484	Otsego	6 552	
.485	Antrim	15 692	
.486	Charlevoix	19 157	
.487	Cheboygan	17 872	
.488	Emmet	18 561	
.489	Manitou		

Annex to Charlevoix and Leelanau in 1896

DECIMAL CLASSIFICATION

Michigan

977.49	Upper peninsula	<i>Population 1910</i>	
.491	Chippewa	24 472	
.492	Mackinac	9 249	
	Luce	4 004	
.493	Alger	7 675	
	Schoolcraft	8 681	
.494	Delta	30 108	
.495	Menominee	25 648	
	<i>Menominee (city)</i>		10 507
	Dickinson	20 524	
.496	Marquette	46 739	
	<i>Ishpeming</i>		12 448
.497	Baraga	6 127	
	Iron	15 164	
.498	Gogebic	23 333	
	Ontonagon	8 650	
.499	Houghton	88 098	
	Keweenaw	7 156	
	Isle Royale		
	Annexed to Keweenaw in 1897		

.5 Wisconsin

1836 organized as territory
 29 May 1848, admitted as 30th state Area 56,040 sq. mi.
 Population 2,333,860 in 1910 71 counties
 Sobriquet: Badger state Capital: Madison

.51	Northwest counties	<i>Population 1910</i>	
.511	Douglas	47 422	
.512	<i>Superior</i>		40 384
.513	Bayfield	15 987	
.514	Burnett	9 026	
.515	Washburn	8 196	
.516	Sawyer	6 227	
.517	Polk	21 367	
.518	Barron	29 114	
.519	Rusk (formerly Gates)	11 160	
	Name changed from Gates to Rusk in 1905. Gates organized from Chippewa in 1901		
.52	Central north counties		
.521	Ashland	21 965	
	<i>Ashland (city)</i>		11 594
.522	Iron	8 306	
.523	Vilas	6 019	
.524	Price	13 795	
.525	Oneida	11 433	
.526	Taylor	13 641	
.527	Lincoln	19 064	
.528	Clark	30 074	
.529	Marathon	55 054	
	<i>Wausau</i>		16 560

Wisconsin

		<i>Population 1910</i>	
977-53	Northeast counties		
.531	Forest	6 782	
.532	Florence	3 381	
.533	Marinette	33 812	
.534	<i>Marinette</i> (city)		14 610
.535	Langlade	17 062	
.536	Shawano	31 884	
.537	Oconto	25 657	
.538	Waupaca	32 782	
.539	Outagamie	49 102	
	<i>Appleton</i>		16 773
.54	Central west counties		
.541	St Croix	25 910	
.542	Pierce	22 079	
.543	Dunn	25 260	
.544	Chippewa	32 103	
.545	Eau Claire	32 721	
.546	<i>Eau Claire</i> (city)		18 310
.547	Pepin	7 577	
.548	Buffalo	16 006	
.549	Trempealeau	22 928	
.55	Central counties		
.551	Jackson	17 075	
.552	Wood	30 583	
.553	Portage	30 945	
.554	Monroe	28 881	
.555	Juneau	19 569	
.556	Adams	8 604	
.557	Waushara	18 886	
.558	Marquette	10 741	
.559	Green Lake	15 491	
.56	Central east counties		
.561	Brown	54 098	
	<i>Green Bay</i> (city)		25 236
.562	Kewaunee	16 784	
.563	Door	18 711	
.564	Winnebago	62 116	
.565	<i>Oshkosh</i>		33 062
.566	Calumet	16 701	
.567	Manitowoc	44 978	
	<i>Manitowoc</i> (city)		13 027
.568	Fond du Lac	51 610	
	<i>Fond du Lac</i> (city)		18 797
.569	Sheboygan	54 888	
	<i>Sheboygan</i> (city)		26 398

DECIMAL CLASSIFICATION

Wisconsin

		<i>Population 1910</i>	
977-57	Southwest counties		
.571	La Crosse	43 996	
.572	La Crosse (city)		30 417
.573	Vernon	28 116	
.574	Crawford	16 288	
.575	Richland	18 809	
.576	Sauk	32 869	
.577	Grant	39 007	
.578	Iowa	22 497	
.579	La Fayette	20 075	
.58	Central south counties		
.581	Columbia	31 125	
.582	Dodge	47 436	
.583	Dane	77 435	
.584	Madison		25 531
.585	Jefferson	34 306	
.586	Green	21 641	
.587	Rock	55 538	
	Janesville		13 894
.588	Beloit		15 125
.589	Walworth	29 614	
.59	Southeast counties		
.591	Washington	23 784	
.592	Ozaukee	17 123	
.593	Waukesha	37 100	
.594	Milwaukee	433 187	
.595	Milwaukee (city)		373 857
.596	Racine	57 424	
.597	Racine (city)		38 002
.598	Kenosha	32 929	
.599	Kenosha (city)		21 371

.6 Minnesota

3 Mar. 1849, organized as territory from Northwest territory and Louisiana purchase
 11 May 1858, east part admitted as 32d state; west part merged in Dakota territory 1861
 Population 2,075,708 in 1910 Area 80,858 sq. mi. 86 counties
 Sobriquet: Gopher state Capital: St. Paul

.7 Iowa

12 June 1838, organized as a territory
 28 Dec. 1846, admitted as 29th state Area 56,025 sq. mi.
 Population 2,224,771 in 1910 99 counties
 Sobriquet: Hawkeye state Capital: Des Moines

Iowa

977-71	Northwest counties	Population 1910	
.711	Lyon	14 624	
6	Osceola	8 956	
.712	Dickinson	8 137	
5	Emmet	9 816	
.713	Sioux	25 248	
.714	O'Brien	17 262	
.715	Clay	12 766	
5	Palo Alto	13 845	
.716	Plymouth	23 129	
.717	Cherokee	16 741	
.718	Buena Vista	15 981	
.719	Pocahontas	14 808	
.72	Central north counties		
.721	Kossuth	21 971	
.722	Winnebago	11 914	
.723	Worth	9 950	
4	Mitchell	13 435	
.724	Hancock	12 731	
.725	Cerro Gordo	25 011	
.726	Floyd	17 119	
.727	Humboldt	12 182	
4	Wright	17 951	
.728	Franklin	14 780	
.729	Butler	17 119	
.73	Northeast counties		
.731	Howard	12 920	
5	Chickasaw	15 375	
.732	Winneshiek	21 729	
.733	Allamakee	17 328	
.734	Bremer	15 843	
.735	Fayette	27 919	
.736	Clayton	25 576	
.737	Blackhawk	44 865	
1	Waterloo		26 693
.738	Buchanan	19 748	
5	Delaware	17 888	
.739	Dubuque	57 450	
1	Dubuque (city)		38 494
.74	Central west counties		
.741	Woodbury	67 616	
1	Sioux City		47 828
.742	Ida	11 296	
4	Sac	16 555	
.743	Calhoun	17 090	
.744	Monona	16 633	
.745	Crawford	20 041	
.746	Carroll	20 117	
6	Greene	16 023	
.747	Harrison	23 162	
.748	Shelby	16 552	
6	Audubon	12 671	
.749	Guthrie	17 374	

DECIMAL CLASSIFICATION

Iowa

977.75	Central counties	Population 1910	
.751	Webster	34 629	
I	<i>Fort Dodge</i>		13 374
.752	Hamilton	19 242	
.753	Hardin	20 921	
7	Grundy	13 574	
.754	Boone	27 626	
6	Story	24 083	
755	Marshall	30 279	
I	<i>Marshalltown</i>		13 374
.756	Tama	22 156	
.757	Dallas	23 628	
.758	Polk	110 438	
I	<i>Des Moines</i>		86 368
.759	Jasper	27 034	
6	Poweshiek	19 589	
.76	Central east counties		
.761	Benton	23 156	
.762	Linn	60 720	
I	<i>Cedar Rapids</i>		32 811
.763	Jones	19 050	
.764	Jackson	21 258	
.765	Iowa	18 409	
5	Johnson	25 914	
.766	Cedar	17 765	
.767	Clinton	45 394	
I	<i>Clinton (city)</i>		25 577
.768	Muscatine	29 505	
I	<i>Muscatine (city)</i>		16 178
.769	Scott	60 000	
I	<i>Davenport</i>		43 028
.77	Southwest counties		
.771	Pottawattamie	55 832	
I	<i>Council Bluffs</i>		29 292
.772	Cass	19 047	
.773	Adair	14 420	
.774	Mills	15 811	
.775	Montgomery	16 604	
.776	Adams	10 998	
.777	Fremont	15 623	
.778	Page	24 002	
.779	Taylor	16 312	
.78	Central south counties		
.781	Madison	15 621	
.782	Warren	18 194	
.783	Marion	22 995	
.784	Mahaska	29 860	
.785	Union	16 616	
6	Clarke	10 736	
.786	Lucas	13 462	
5	Monroe	25 429	
787	Ringgold	12 904	
5	Decatur	16 347	
.788	Wayne	16 189	
789	Appanoose	28 701	

Iowa

	Southeast counties	Population 1910	
977-79			
.791	Keokuk	21 160	
.792	Washington	19 925	
6	Louisa	12 855	
.793	Wapello	37 743	
1	<i>Ottumwa</i>		22 012
.794	Jefferson	15 951	
.795	Henry	18 640	
.796	Des Moines	36 145	
1	<i>Burlington</i>		24 324
.797	Davis	13 315	
.798	Van Buren	15 020	
.799	Lee	36 702	
1	<i>Keokuk (city)</i>		14 008

.8 Missouri

7 Dec. 1812, organized as a territory 10 Aug. 1821, admitted as 24th state
 Population 3,293,335 in 1910 114 counties and St Louis
 Sobriquets: Bullion state, Iron state Capital: Jefferson Area 69,415 sq. mi.

	Northwest counties	Population in 1910	
.811	Atchison	13 604	
5	Holt	14 539	
.812	Nodaway	28 833	
6	Andrew	15 282	
.813	Buchanan	93 020	
1	<i>St Joseph</i>		77 403
5	Platte	14 429	
.814	Worth	8 007	
5	Gentry	16 820	
.815	Dekalb	12 531	
5	Clinton	15 297	
.816	Clay	20 302	
.817	Harrison	20 466	
.818	Daviess	17 605	
5	Caldwell	14 605	
.819	Ray	21 451	
.82	Central north counties		
.821	Mercer	12 335	
5	Grundy	16 744	
.822	Livingston	19 453	
5	Carroll	23 098	
.823	Putnam	14 308	
5	Sullivan	18 598	
.824	Linn	25 253	
.825	Chariton	23 503	
.826	Schuyler	9 062	
4	Adair	22 700	
.827	Macon	30 868	
.828	Randolph	26 182	
1	<i>Moberly</i>		10 923
5	Howard	15 653	
.829	Boone	30 533	

DECIMAL CLASSIFICATION

Missouri

977 83	Northeast counties	Population 1910	
.831	Scotland	11 869	
5	Knox	12 403	
.832	Shelby	14 864	
5	Monroe	18 304	
.833	Audrain	21 687	
5	Callaway	24 400	
.834	Clark	12 811	
5	Lewis	15 514	
.835	Marion	30 572	
1	<i>Hannibal</i>		18 341
5	Ralls	12 913	
.836	Pike	22 556	
.837	Lincoln	17 033	
.838	Montgomery	15 604	
6	Warren	9 123	
.839	St Charles	24 695	
.84	Central west counties		
.841	Jackson	283 522	
1	<i>Kansas City</i>		248 381
.842	Cass	22 973	
.843	Bates	25 869	
.844	Vernon	28 827	
.845	Lafayette	30 154	
5	Johnson	26 297	
.846	Henry	27 242	
6	St Clair	16 412	
.847	Saline	29 448	
.848	Pettis	33 913	
1	<i>Sedalia</i>		17 822
.849	Benton	14 881	
6	Hickory	8 741	
.85	Central counties		
.851	Cooper	20 311	
.852	Moniteau	14 375	
.853	Morgan	12 863	
.854	Camden	11 582	
.855	Cole	21 957	
1	<i>Jefferson City</i>		11 850
.856	Miller	16 717	
.857	Pulaski	11 438	
.858	Osage	14 283	
.859	Maries	10 088	
4	Phelps	15 796	
.86	Central east counties		
.861	Gasconade	12 847	
.862	Crawford	13 576	
.863	Franklin	29 830	
.864	Washington	13 378	
.865	St Louis	82 417	
.866	<i>St Louis (city)</i>	687 029	
.867	Jefferson	27 878	
.868	St Francois	35 738	
.869	Ste Genevieve	10 607	
4	Perry	14 898	

Missouri

977.87	Southwest counties		
.871	Barton	16	747
.872	Jasper	89	673
1	<i>Joplin</i>		.32 073
2	<i>Webb City</i>		11 817
.873	Newton	27	136
6	McDonald	13	539
.874	Cedar	16	080
5	Dade	15	613
.875	Lawrence	26	583
.876	Barry	23	869
.877	Polk	21	561
.878	Greene	63	831
1	<i>Springfield</i>		35 201
.879	Christian	15	832
4	Stone	11	559
7	Taney	9	134
.88	Central south counties		
.881	Dallas	13	181
5	Laclede	17	363
.882	Webster	17	377
5	Wright	18	315
.883	Douglas	16	664
5	Ozark	11	926
.884	Texas	21	458
.885	Howell	21	065
.886	Dent	13	245
.887	Shannon	11	443
5	Oregon	14	681
.888	Iron	8	563
5	Reynolds	9	592
.889	Carter	5	504
4	Ripley	13	099
.89	Southeast counties		
.891	Madison	11	273
.892	Wayne	15	181
.893	Butler	20	624
.894	Bollinger	14	576
.895	Stoddard	27	807
.896	Cape Girardeau	27	621
.897	Scott	22	372
.898	Mississippi	14	557
5	New Madrid	19	488
.899	Dunklin	30	328
6	Pemiscot	19	559

978 Western or Mountain

Including general works on 'the West'

.1 Kansas

1541 explored by Spanish

30 May 1854 organized as separate territory, after successive inclusion in Louisiana and Missouri territories 29 Jan. 1861 admitted as 34th state

Area 81,774 sq. mi. Population 1,690,949 in 1910 105 counties

Sobriquet: Garden of the west Capital: Topeka

.2 Nebraska

30 May 1854 territory organized out of Missouri territory

1 Mar. 1867 admitted as 37th state

Area 76,808 sq. mi. Population 1,192,214 in 1910 92 counties

Sobriquet: Blackwater state Capital: Lincoln

.3 South Dakota Including works on Dakota as a whole

2 Nov. 1889 admitted as 40th state (Dakota ter. organized 2 Mar. 1861, divided into North and South Dakota)

Area 76,868 sq. mi. Population 583,888 in 1910 68 counties

Sobriquet: Coyote state Capital: Pierre

.4 North Dakota

2 Nov. 1889 admitted as 39th state (Dakota ter. organized 2 Mar. 1861, divided into North and South Dakota)

Area 70,183 sq. mi. Population 577,056 in 1910 49 counties

Sobriquet: Flickertail state Capital: Bismarck

.5**.6 Montana**

26 May 1864 territory organized. Name means Mountain land

8 Nov. 1889 admitted as 41st state

Area 146,201 sq. mi. Population 376,053 in 1910 28 counties

Sobriquet: Treasure state Capital: Helena

.7 Wyoming

25 July 1868 Wyoming territory organized

10 July 1890 admitted as 44th state

Area 97,594 sq. mi. Population 145,965 in 1910 15 counties

Sobriquet: Stub Toe state Capital: Cheyenne

.8 Colorado

28 Feb. 1861 Colorado territory organized

1 Aug. 1876 admitted as 38th state

Area 103,658 sq. mi. Population 799,024 in 1910 60 counties

Sobriquet: Centennial state Capital: Denver

.9 New Mexico

2 Feb. 1848 ceded by Mexico

9 Sep. 1850 territory organized; enlarged 1853 by Gadsden purchase

6 Jan. 1912 admitted as 47th state Area 122,503 sq. mi.

Population 327,301 in 1910 26 counties Capital: Santa Fé

979 Pacific

.1 Arizona

2 Feb. 1848 ceded by Mexico, and enlarged by Gadsden purchase 1853

24 Feb. 1863 territory organized 14 Feb. 1912 admitted as 48th state

Area 113,810 sq. mi. Population 204,354 in 1910 13 counties

Sobriquets: Valentine, Hassayampa state Capital: Phoenix

.2 Utah

2 Feb. 1848 ceded by Mexico 9 Sep. 1850 territory organized

4 Jan. 1896 admitted as 45th state

Area 82,184 sq. mi. Population 373,351 in 1910 27 counties

Sobriquet: Salt Lake state Capital: Salt Lake City

.3 Nevada

2 Mar. 1861 territory organized 31 Oct. 1864 admitted as 36th state

Area 109,821 sq. mi. Population 81,875 in 1910 15 counties

Sobriquet: Silver state Capital: Carson

979.4

California

Admitted 9 Sep. 1850, as 31st state Area 155,652 sq. mi.
 Population 2,377,549 in 1910 58 counties
 Soubriquet: Golden state Capital: Sacramento

Northern or Superior California

Use 979.41 as a general number, including .41-.43

		<i>Population in 1910</i>
.41	Coast range counties, north	
.411	Del Norte	2 417
.412	Humboldt	33 857
.414	Trinity	3 301
.415	Mendocino	23 929
.417	Lake	5 526
.418	Sonoma	48 394
.419	Napa	19 800
.42	Northeast counties	
.421	Siskiyou	18 801
.423	Modoc	6 191
.424	Shasta	18 920
.426	Lassen	4 802
.427	Tehama	11 401
.429	Plumas	5 259
.43	North central counties	
.431	Glenn	7 172
.432	Butte	27 301
.433	Colusa	7 732
.434	Sutter	6 328
.435	Yuba	10 042
.426	Sierra	4 098
.437	Nevada	14 955
.438	Placer	18 237

Central California

Use 979.44 as a general number, including .44-.48

.44	East central counties	
.441	El Dorado	7 492
.442	Amador	9 086
.443	Alpine	309
.444	Calaveras	9 171
.445	Tuolumne	9 979
.446	Mariposa	3 956
.447	<i>Yosemite</i>	
.448	Mono	2 042
.45	Central counties	
.451	Yolo	13 926
.452	Solano	27 559
.453	Sacramento	67 806
.454	<i>Sacramento (city)</i>	44 696
.455	San Joaquin	50 731
.456	<i>Stockton</i>	23 253
.457	Stanislaus	22 522
.458	Merced	15 148

DECIMAL CLASSIFICATION

California

979.46	West central counties	San Francisco group	
.461	San Francisco co. and city	416 912	
.462	Marin	25 144	
.463	Contra Costa	31 674	
.465	Alameda	246 131	
	<i>Alameda</i> (city)		23 383
.466	<i>Oakland</i>		150 174
.467	<i>Berkeley</i>		40 434
.469	San Mateo	26 585	
.47	Coast range counties, south		
.471	Santa Cruz	26 140	
.473	Santa Clara	83 539	
.474	<i>San José</i>		28 946
.475	San Benito	8 041	
.476	Monterey	24 146	
.478	San Luis Obispo	19 383	
.48	South central counties		
.481	Madera	8 368	
.482	Fresno	75 657	
.483	<i>Fresno</i> (city)		24 892
.485	Kings	16 230	
.486	Tulare	35 440	
.487	Inyo	6 974	
.488	Kern	37 715	
	Southern California		
.49	Southern counties		
.491	Santa Barbara	27 738	
	Ilands: San Miguel, Santa Rosa, Santa Cruz, Santa Barbara		
.492	Ventura	18 347	
	Ilands: Anacapa, San Nicholas		
.493	Los Angeles	504 131	
	Ilands: Santa Catalina, San Clemente		
.494	<i>Los Angeles</i> (city)		319 198
.495	San Bernardino	56 706	
.496	Orange	34 436	
.497	Riverside	34 696	
.498	San Diego	61 665	
	<i>San Diego</i> (city)		39 578
.499	Imperial	13 591	

979.5 Pacific States

Oregon

14 Aug. 1848 territory organized 14 Feb. 1859 admitted as 33d state
 Area 96,607 sq. mi. Population 672,765 in 1910 34 counties
 Sobriquet: Beaver state Capital: Salem

.6 Idaho

3 Mar. 1863 territory organized. Part of Louisiana purchase. First
 included in Oregon, later in Washington territory
 3 July 1890 admitted as 43d state
 Area 83,354 sq. mi. Population 325,594 in 1910 23 counties
 Sobriquet: Gem state Capital: Boise

.7 Washington

2 Mar. 1853 territory organized; earlier, part of Oregon territory
 11 Nov. 1889 admitted as 42d state
 Area 66,836 sq. mi. Population 1,141,990 in 1910 38 counties
 Sobriquet: Evergreen state Capital: Olympia

.8 Alaska

30 Mar. 1867 ceded by Russia 24 Aug. 1912 organized as territory
 Area 590,884 sq. mi. Population 64,356 in 1910 Capital: Sitka

980 South America

981 Brazil

982 Argentina Patagonia

983 Chile

984 Bolivia

985 Peru

986 U. S. of Colombia Panama New Granada
Ecuador

987 Venezuela

988 Guiana

989 Paraguay Uruguay

990 Oceanica Polar regions

991 Malaysia

.1 Borneo .2 Celebes .3 Moluccas or Spice islands .4 Phillipine
islands

992 Sunda

.1 Sumatra .2 Java

993 Australasia

.1 New Zealand .2 New Caledonia .3 Loyalty islands .4 New
Hebrides .5 Solomon islands .6 New Britain, New Ireland
.7 Admiralty islands

994 Australia

.1 Western Australia .2 South Australia .3 Queensland .4 New
South Wales .5 Victoria .6 Tasmania

995 New Guinea

996 Polynesia

.1 Fiji, Friendly and Navigator islands .2 Society, Austral and
Cook's islands .3 Marquesas islands and Low Archipelago .4 Minor
Polynesian islands .5 **Micronesia** .6 Caroline and Pelew islands
.7 Ladrone islands .8 Marshall and Gilbert islands .9 Hawaii

997 Isolated islands

998 Arctic regions

General number for Polar regions

999 Antarctic regions

RELATIV SUBJECT INDEX

INDEX ABBREVIATIONS

Cutter forename abbreviations Most common forenames of men are denoted by initial and colon; of women by initial and double period.

A.. Anna	G: George	L.: Louisa	S: Samuel
A: Augustus	G.. Grace	M: Mark	S.. Sarah
B.. Beatrice	H.. Helen	M.. Mary	T.. Theresa
B: Benjamin	H: Henry	N.. Nancy	T: Thomas
C: Charles	I: Isaac	N: Nicholas	U: Ulrich
C.. Charlotte	I.. Isabella	O.. Olivia	U.. Ursula
D: David	J.. Jane	O: Otto	V: Victor
D.. Delia	J: John	P.. Pauline	V.. Victoria
E: Edward	K: Karl	P: Peter	W.. Wilhelmina
E.. Elizabeth	K.. Kate	R.. Rebecca	W: William
F.. Fanny	L: Lewis	R: Richard	Z.. Zenobia
F: Frederick			

Other abbreviations exclusiv of common geografic abbreviations and others selfexplanatory; e. g. those made by omitting final -ment, -ogy, -rafy, -tion, -ture, obscure syllables, etc.

adj.	adjutant	elec.	electric -ity	nat.	natural, nature
anal.	analysis	eng.	engineering	nonchr.	nonchristian
anat.	anatomy	eth.	ethical, ethics	ord.	order, orders
anc.	ancient	exped.	expedition	ordn.	ordnance
antiq.	antiquities	fest.	festival	org.	organ -ic
arch.	archeology	fic. <i>or</i>	fiction	ong.	origin -al
	architecture	fict.		phil.	philosofer -y
ass'n	association	gard.	gardening	philol.	philology
astr.	astronomy	gen.	general	phot.	photografic -y
bibliog.	bibliografic	geod.	geodesy	phys.	physical
biog.	biografy	geog.	geografic		physiologic -y
bldg	bilding	geol.	geology	poet.	poetry
bus.	business	geom.	geometry	pol. <i>or</i>	political <i>or</i>
ch.	church	gov. <i>or</i>	government	polit.	politics
chem.	chemic	gov't		prac.	practical
	chemistry	histol.	histology	pres.	presidency
chr.	christian	hist.	historic -y		president
civ.	civil	hum.	humor	prob.	probabilities
co.	county	hyg.	hygiene	prot.	protection
cont.	contagious	instr.	instrument	psych.	psychologic -y
cost.	costume	lang.	language	pub.	public
crim.	criminal	lib.	library -ian	reg.	region
Dan.	Danish	lig.	ligament	relig.	religion, -ous
dec.	decoration	lit.	literature	rit.	ritual
descr.	description	loc.	local -ity	sat.	satire
	descriptiv	mach.	machine -ry	sci.	science, -tific
diff.	different	manuf.	manufactures	serm.	sermons
dis.	diseases	mech.	mechanic	soc.	social, society
discov.	discovery	ment.	mental	stat.	statutes
doc.	doctrin -al	meth.	methods	subj.	subject
dom.	domestic	mfg	manufacturing	tech.	technology
dram.	drama	mil.	military	theol.	theologic -y
dwel.	dwelling	min.	mineral	theor.	theoretic
eccles.	ecclesiastic		mining	therap.	therapeutics
	ecclesiology	misc.	miscellany	wks	works
econ.	economic -y	mon.	monastic		

HOW TO USE THIS INDEX

Find the subject desired in its alphabetical place in the index. The number after it is its class number and refers to the place where the topic will be found, in numerical order of class numbers, on the shelves or in the subject catalogs. All class numbers are decimals; i. e., 571.34, Bronze remains, comes before 571.4, Iron age, and both of them before 572, Ethnology. Printed labels on the shelves or drawer fronts guide readily to the class number sought.

Under this class number will be found the resources of the library on the subject desired. Other subjects near the one sought may often be consulted with profit; e. g., Communism is the topic wanted and the index refers to 335.4, but 335, Socialism, and even the inclusive division 33c, Political economy, also contain much on this subject. The reverse is equally true; the full material on Socialism can only be had by looking at its divisions 335.3, Fourierism, 335.4, Communism, etc. The topics which are thus subdivided are plainly marked in the index by heavy faced type.

THIS INDEX CONTAINS

in a single alphabet all the subjects named in the Complete Tables of the Decimal Classification together with their synonyms and such other useful topics as could be found in a selection of the largest dictionary and subject catalogs.

Where nothing is found under any number it shows that the library does not yet possess any book on that topic.

IT DOES NOT INCLUDE

all names of places, minerals, plants, etc., but gives only those used in the full tables and a farther selection of the most common and useful. It is not a biographical dictionary and gives **no names of persons** as biographical headings, but only such as appear in the tables in connection with some subject like Philosophy, Literature, or History.

To avoid swelling the index by frequent repetitions of long lists of sub-divisions under every country, language, etc., five general tables have been prepared; viz. 1, Geographical divisions; 2, Form divisions; 3, Languages; 4, Philological divisions; 5, Literatures. These are placed at the end and referred to from all such topics in the index. Explanations precede each index table.

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A là carte table system		642.53	digiti quinti brevis		611.73776
Aagesen, Svend Dan.	misc.	839.8812	hallucis		611.7389
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Administrativ		library propagandism	021.73
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Aerated		Affliction		
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Aerodromes	aeronautics 629.144	African		
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physics	533.6	Agave	fibers	633.577
Aerostation	aeronautics 629.15	Age		
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Aged			Agriculture		630	
cooking for	dom. econ.	641.563	cooperativ		334.6	
diet for		613.21	departments of		630.61	
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	institutions	362.6	indians		970.6	
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employment	pol. econ.	331.86	Agrostideae	grass crops	633.285	
	Y M C A	267.3562	¹ Aguascalientes, Mex.	hist.	972.4	
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Agnostics	relig. heresy	273.8		readers	lib. econ.	028.8
Agnus Dei	music	783.22			ref. work	025.5
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Agricultural			analysis	chemistry	543.7	
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hevier than air		629.17	
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¹ Aisne, France	history	944.34	
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¹	history	976.1	
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¹ Alameda city, Cal.	hist.	979.465	
¹	co. " "	979.465	
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¹	history	979.8	
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Albania			
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¹	Turkey mod. hist.	949.6	
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¹	city N. Y. history	974.743	
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¹	co. N. Y. history	974.742	
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2	" "	943.028	
¹ Albert co. N. B.	hist.	971.531	
	nyanza travels	916.76	
¹ Alberta, Canada	history	971.23	
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Albigenses	persecutions	272.3	
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denatured	chem. tech.	661	subject catalog	025.3
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heating	prac. chem.	542.43	catalog	cataloging 025.3
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¹ Alcona co. Mich.	hist.	977.479	Algebra	512
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¹ Allamakee co. Ia.	hist.	977.733		general 529.5
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¹ Alleghany co. Md.	hist.	975.294	Almqvist, K.:J.L. Sw.	poetry 839.7166
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¹ Alleghany N. Y.	hist.	974.784	Almshouses	362.5
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¹Alpena co. Mich. history 977.481
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¹Alpine co. Cal. hist. 979.443
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¹Altoona, Pa. history 974.876
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¹Amador co. Cal. history 979.442
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⁵	Eng. lit.	828	Cookers	kitchen equip.	643.33
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⁴ Cornish		matter	530.1
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¹ Cortland co. N. Y.	hist.	974.772	Cottages, laborers	archit.	728.68
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¹	Ind.	history 977.228	Crested turkey		636.59214
¹	Ia.	" 977.745	Cresting	roofs	721.56
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¹ co. Ia. history	977.765	assimilation physiology	612.3924
¹ Wis. "	977.578	bearing waters geol.	553.73
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¹ Mahaska co. Ia.	history	977.784		travels	919.1
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¹ Mahoning co. O.	hist.	977.139	¹ peninsula	history	959.5
¹ Mahrah, Arabia	"	953.4		Polynesian languages	499
⁴ Mahratta language	"	491.46		poultry	636.5854
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¹ Maine, France	history	944.16		functions of generation	612.61
¹ et Loire, Fr.	"	944.18		servants dom. econ.	647.22
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Maine, battleship	Span. war	973.891		somatology	573.9
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¹ Malacca	history	959.5		swine	636.45
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¹ Malaga	history	946.8	Malvern Hill	U. S. civ. war	973.7327
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¹ Mashona, Africa	history	968.9		ear diseases	617.87
¹ Maskinonge co. Que.	hist.	971.444	glands	anatomy	611.4632
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¹ Massac co. Ill.	history	977.3997	library bildings		022.2
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⁵ Maxims Eng. literature	828		injuries, effects of med.	616.982	
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¹ Mecosta co. Mich.	history	977.452	dental	617.6
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¹ Moline, Ill. history	977.339	and Merrimac U. S. hist.	973.7324
Molinists heresies	273.7	naval history	973.752
persecution	272.5	Monitorial system of educ.	371.41
Molino del Rey, battle	973.6239	Monitors	
¹ Molise, Italy history	945.71	school government	371.57
Mollusca paleontology	564	warships naval eng.	623.825
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Molluscoidea	594.6	Monks religious orders	271
Mollusks fishery	639.4	Monmouth	
Molly Maguires		battle Amer. revol.	973.3342
labor organizations	331.88	¹ co. England	942.43
Molting embryology	591.34	¹ N. J. history	974.946
¹ Moluccas history	991.3	Monmouth's rebellion	942.067
Molybdates mineralogy	549.74	¹ Mono co. Cal. hist.	979.448
Molybdenum chemistry	546.77	Monocacy, Md	
Molza, F. M. Ital. fiction	853.33	battle U. S. civ. war	973.7369
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Moments statics	531.23	Monogamy family ethics	173.2
Monachism theology	271	hygiene	613.89
¹ Monaco history	944.94	Monograms design	745
travel	914.494	Monoliths prehist. arch.	571.94
¹ Monaghan, Ireland hist.	941.67	Monomania insanity	132.1
Monarch Eng. government	354.4203	¹ Monona co. Ia. hist.	977.744
Monarchic institutions	321.6	¹ Monongahela val. W. Va. hist	975.451
Monarchs		¹ Monongalia co. W. Va. "	975.452
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of states Ger. gov't	354.4307	aeronautics	629.173
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Monasteries architecture	726.7	Monorail	
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Monetary congresses	332.44	Monotropeæ botany	583.63

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¹ Monroe Ind.	history	977.225		¹ co. Pa.	"	974.812
	travels	917.7225		Fort Amer. revol.		973.3335
¹ co. Ill.	history	977.391		¹ Wales	history	942.94
¹ Ia.	"	977.7865		Montgomery's		
¹ Mich.	"	977.432		Canada expd.	Am. rev.	973.3315
¹ Mo.	"	977.8325		glands	anatomy	611.691
¹ N. Y.	"	974.788		Months, names of		529.2
¹ O.	"	977.196		Monti, Vincenzo	Ital. poet.	851.64
¹ Pa.	"	974.825		¹ Montmagny co. Que.	hist.	971.4735
¹ W. Va.	"	975.478		¹ Montmorency co. Mich.	"	977.483
¹ Wis.	"	977.554		¹ Que.	"	971.448
	doctrin foren relations	327.73		¹ Montour co. Pa.	"	974.839
	U. S. history	973.54		¹ Montreal, Que.	"	971.4281
Monro's foramen	anat.	611.8148			travel	917.14281
Mons veneris	"	611.6731		Monts de piété		
Monsoons	meteorology	551.51			loan institutes	332.33
Monsters, fabulous		398.4			state control	351.825
Monstrosities				Monuments		
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Mont Blanc	travels	914.449		U. S. civil war		973.765
Cenis tunnel		622.26		³ Moods, signs of	Eng.	422.8
Montagu, Mrs E.	Eng. let.	826.62		³ syntax	Eng.	425.8
M.. Lady	" "	826.51		Moon		
Montaigne, M.E. de	Fr. lit.	844.31		astronomy		523.3
Montana, U. S.				charts		523.39
admission	U. S. history	973.86		effect on tides		525.62
¹ history		978.6		maps	observations	524.3
military hist.	Span. war	973.89486		observation of		523.39
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¹ Montcalm co. Mich.	hist.	977.453		Edward	Eng. essays	824.61
¹ Que.	"	971.441		Thomas	poetry	821.75
Montemayor, Jorge de		863.31		lamp elec. lighting		621.3275
¹ Montenegro	history	949.7		Moorish		
Monterey, battle	Mex. war	973.6235		architecture		723.3
¹ co. Cal.	hist.	979.476		kingdom	Span. hist.	946.02
Montesquieu	Fr. essays	844.52		Moors, expulsion of	" "	946.03
Montgolfier ram	hyd. eng.	621.272		Moot courts		340.7
Montgolfières				Mootan language		491.41
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Montgomery				Moraines	glaciers	551.32
¹ co. Ill.	history	977.382		Moral		
¹ Ind.	"	977.248		agency, free	doc. theol.	233.7
¹ Ia.	"	977.775		education		377
¹ Md.	"	975.284		expectations	probabil.	519.2
¹ Mo.	"	977.838		government in schools		371.58
¹ N. Y.	"	974.746		heredity	metaphysics	129.2
¹ O.	"	977.172		theology		233.3

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⁴ language	491.87		Morphin habit ethics	178.8
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¹ Morbihan, France hist.	944.13		Morris	
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¹ Morea history	949.5		iland, S. C. U.S. civ. war	973.7351
¹ Morelos, Mex. "	972.4		Morristown, N. J. Am. rev.	973.367
¹ Moresnet history	949.3		¹ Morrow co. O. history	977.1516
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Moreto y Cabaña, A.	862.37		code elec. "	621.382151
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³ English language	425.1		engineering	620.15
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¹ Morgan co. Ill. history	977.346		customs	393
¹ Ind. "	977.251		designs sacred ornam'ts	247.3
¹ Mo. "	977.853		statistics population	312
¹ O history	977.194		registration	614.12
¹ W. Va. "	975.496		Morvan sheep	636.386

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¹ Moscow	history	947.3			
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¹ Moselle, France	history	944.382			
Mosenthal, S.H.	Ger. dram.	832.82			
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¹ Mosquito shore, Cent. Am.		972.85			
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¹ Mosûl	history	956.7			
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⁵	Eng. literature	828			
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¹ Moultrie co. Ill.	history	977.367			
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¹ counties W. Va.	history	975.48			
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¹ Muncie, Ind.	history	977.265	Muscovy duck	636.59783
¹ Munich	"	943.36	Muscular	
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¹ Munster, Ireland	history	941.9	material	lib. adminis. 025.179
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¹ Murcia, Spain	history	946.7	general	060
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¹ Muscatine city, Ia.	hist.	977.7681	art	780
¹	co. " "	977.768	biografy	927.8
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¹ Muskegon city, Mich.	hist.	977.457	Myrana	univ. language	408.9
¹ co.	"	977.457	Myrica		634.663
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¹ Muskingum co. O.	hist.	977.191	Myrrh	perfume plants	633.816
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¹ Muskoka dist. Ont.		971.316	Myrtaceæ	"	583.42
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¹ Nairn, Scotland	history	941.22		in speech physiol. 612.7891
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¹ Joseph co. Ind.	history	977.289	
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lunch rooms	642.58	of religion	201
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premises	371.6	sanitary	628
promenades school hyg.	371.737	social sociology	300
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Y. M. C. A. work	267.361	natural	500
¹ Schoolcraft co. Mich. hist.	977.493	occult	133
Schools		Scientific	
agricultural	630.712	buildings architecture	727
and libraries lib. econ.	021.3	explorations, general	508.3
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hygiene	613.54	surveys, general	508.3
library propogandism	021.75	systems economics	330.15
training	020.7	travels	508.3
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parochial education	377.5	¹ Scilly Islands history	942.37
parish work	257	travel	914.237
public	379	Scion grafting	631.5411
reform	364	Sciopticon optics	535.86
architecture	725.64	¹ Scioto co. O. history	977.187
riding "	725.88	Scitamineæ botany	584.21

Sclera	anatomy	611.8415	Scotland		
	physiology	612.8415	treaties		341.241
Sclerotic coat	anatomy	611.8415	universities		378.41
	eye diseases	617.71	zoology		591.941
Scollop	fishery	639.4	¹ Scotland co. Mo.	history	977.831
Scolymus		635.167	Scott		
Sconces	domestic econ.	644.325	Dred, case	U. S. civ. war	973.7115
Scoops, water	steam locom.	621.1363		decision slavery	326.973
Scooter cultivators		631.3127		U.S.hist.	973.68
"	plows	631.3162	Walter	Eng. fiction	823.73
Scope and usefulness of lib.		021		poetry	821.74
Scoria	volcanic rocks	552.21	¹ Scott co. Ill.	history	977.345
Scorpions	zoology	595.4	¹	Ind.	"
Scorzonera		635.166	¹	Ia.	"
Scotch			¹	Mo.	"
¹ border	history	941.4	Scott-Brown	shorthand	653.53
	travel	914.14	Scottish,	see	Scotch
	episcopal church	283.41	Scott's campain	Mex. war	973.6236
	poetry	821	Scotus, Duns	mediev. phil.	189.4
cattle, beef		636.223		Erigena	" "
	dairy	636.225	Scovil	shorthand	653.37
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covenant	creeds	238.5	¹ Scranton, Pa.	history	974.837
deists	apologetics	239.5	Scrap		
English dialects		427.9	book methods		029.3
episcopal church		283.41	books	general collec.	040
gray fowls		636.527		for special	see subject
⁴ language		491.63	Scrape	horse cultivators	631.3164
	music, vocal	784.4	Scraper	hand tools	631.3153
philosofers	biografy	921.2	Scrapers,	pruning	631.3427
philosofy		192	Scraping	pruning	631.54215
poetry		821	Screen doors	arch. constr.	721.83
ponies		636.162	Screening	min. engin'g	622.74
poultry		636.528	Screens		
presbyterians	biografy	922.541	architectural	construc.	721.87
Romanesque	architecture	723.41	domestic	economy	645.3
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Scotland			food		648.7
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constitutional law		342.41	joints	plumbing	696.5
education		370.941	physics		531.87
finance		336.41	pile	foundations	721.152
geology		554.1	propellers	engineering	621.12
¹ history		941		shipbilding	623.87
laws		349.41	strength	of materials	620.11287
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	N. T.	225.92	shore resorts	hygiene	613.12
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Scrofula	diseases	616.996	Seamanship		656
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Scrophularineæ	botany	583.81	Search		
Scrotum	anatomy	611.638	light	elec. engineering	621.32582
	diseases of	616.67	military	"	623.731
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M. de	"	843.45	Seaside cottages	architec.	728.7
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Scuffler	horse cultivators	631.3162	grafting		631.5412
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Sculpture		730	Seasoning	leaves	635.71
prehistoric		571.73	Seasons	astronomy	525.5
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-at-arms	legislativ bodies	328.3624	apparatus	elec. light.	621.328
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	special, see subject		emergency	dom. econ.	647.29
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	dom. economy	645.69	physiology		612.8197
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¹ Servia	history	949.7	travels		914.68
⁴ Servian language		491.82	Sewage, disposal of		628.3
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city administration	352.6		¹ Shannon co. Mo. history	977.887
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¹ Tolland co. Ct.	history	974.64	
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¹ Tompkins co. N. Y.	hist.	974.771	
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¹ Tonkin	history	959.9	
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The geografic numbers are formed by omitting initial 9 from the historical numbers given in tables 930-999, and these figures are simply affixt to the number given in the table below; e. g. Atlases are numbered in the table below 912; in the historical tables France is numberd 944; omitting initial 9 and affixing the remaining figures, 44, to 912 gives 912.44, Atlases of France; New South Wales is 993.4; omit initial 9 and affix 944 to 912 and the result is 912.944, Atlases of New South Wales. In the table below, Mints are 332.49; in the historical tables England is 942; adding these together (omitting the 9) gives 332.4942, Mints in England. Colleges are 378; N. Y. state, 974.7; add these together (omitting the 9) and the result is 378.747, Colleges in N. Y. state.

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 336. Finance
 923.3 Financiers' lives
 349. Foren law
 327. " relations
 354. " states, administration
 560.9 Fossils, geografic distribution
 027.9 Free news rooms
 027.4 " public libraries
 289.6 Friends or quakers
 922.8 " " " biography
 027.0 General libraries, hist. repts. etc.
 581.9 Geografic botany
 591.9 " dist. of animals
 560.9 " " " fossils
 549.9 " " " minerals
 572.9 " " " races
 91. Geografy, description
 911. " historical
 912. " maps
 355.47 " military
 55. Geology
 724.3 Gothic revival, architecture
 724.4 " Victorian "
 354. Government admin. except (U. S.)
 027.5 " libraries
 352.0 " local
 923.2 Governors lives
 724.2 Grecian revival, architecture
 614.09 Helth, public
 911. Historical geografy
 016.9 History bibliography of
 362.9 Hospitals
 940.476 " Great war
 284.5 Huguenot;
- 922.4 Huguenots biography
 613.09 Hygiene
 325. Immigration
 338.9 Industrial legislation
 607. Institutes of technology
 370.72 " teachers
 368.9 Insurance
 373. Intermediate education
 923.4 Judges' lives
 372.209 Kindergarten history
 923.1 Kings' lives
 331.819 Laboring classes
 333.09 Landholding
 323.1 Languages, internal relations
 923.4 Law biography
 342. " constitutional
 343. " criminal
 349. " foren
 323.6 Laws, citizenship
 379.14 " school
 338.9 Legislation, industrial
 021.89 " library
 328. Legislativ bodies and annals
 923.2 Legislators' lives
 027.0 Libraries, general, histories, re-
 ports, etc.
 352.0 Local government
 284.1 Lutheran church
 922.4 " " biograf.
 371.429 Manual training
 912. Maps
 940.475 Medical dpt, Great war
 370.71 Meetings, teachers
 940.465 Memorials of Great war
 923.8 Merchants' lives
 287.6 Methodist episcopal
 922.7 " biography
 553.70 Mineral waters
 549.9 Minerals, geografic distribution
 332.49 Mints, history
 780.9 Music, history of
 015. National bibliography
 920.0 " biography
 323.1 Nationalities
 923.5 Naval biography
 724.6 Néo-Grec architecture
 027.9 News rooms, free
 923.2 Nobles' lives
 560.9 Paleontology
 027.8 Parish libraries
 328. Parliamentary bodies
 329.9 Parties, political (except U. S.)
 923.6 Philanthropists' lives
 912. Plans of cities, etc.
 581.9 Plants, geografic distribution
 363.9 Political associations

- 923.3 Political economy, biography
 330.9 " " history
 329.9 " parties (except U. S.)
 923.2 " science, biography
 320.9 " " history of
 923.2 Politicians' lives
 312. Population, statistics of
 373. Preparatory schools
 285.1 Presbyterian church in America
 285.2 " " " Gt Britain
 922.5 " " biography
 923.1 Presidents' lives
 655.1 Printing, history of
 365.9 Prisons
 027.1 Private libraries
 373. " schools
 027.2 Proprietary libraries
 283. Protestant episcopal church
 922.3 " " " biog.
 922.4 Protestants, continental, lives
 614.09 Public health
 027.4 Public libraries
 379. " school system
 015. Publishers' lists
 655.4 Publishing, history of
 289.6 Quakers
 922.8 " lives
 724.5 Queen Anne architecture
 923.1 Queens' lives
 323.1 Races, internal relations
 572.9 " of men
 923.8 Railroad officials' lives
 027.4 Rate supported libraries
 027.9 Reading rooms, free
 364.9 Reformatory institutions
 284.1 Reformd church
 285.7 " (Dutch) church in Amer.
 922.4 " " " biography
 327. Relations, foren
 27 Religious history
 724.1 Renaissance architecture
 282. Roman catholic church
 922.2 " " " biography
 724.8 Romanesque revival, architecture
 923.1 Rulers, chief, lives
 628.09 Sanitary engineering, history, etc.
 284.7 Scandinavian church
 922.4 " " biography
 027.8 School libraries
 923.7 " officers' biography
 370.73 Schools, normal
 374.4 " correspondence
 373. " private
 379. " public, system
 508. Scientific travels
 366.9 Secret societies
 373. Seminaries, private
 923.5 Servis, civil, biography
 286.3 Seventh day baptist
 922.6 " " " biography
 289.8 Shakers
 922.8 " biography
 653.09 Shorthald, history
 326.9 Slavery, "
 367.9 Social clubs
 335.9 Socialist communities
 267.2 Societies, religious, of men
 366.9 " secret
 027.2 Society libraries
 923.5 Soldiers' lives
 379. State education
 027.5 " libraries
 923.2 Statesmen's lives
 31 Statistics
 312. " of population
 027.3 Subscription libraries
 324. Suffrage
 027.8 Sunday school libraries
 289.4 Swedenborgians
 922.8 " biography
 284.7 Swedish church
 922.4 " " biography
 724.7 Swiss architecture
 923.7 Teachers' lives
 607. Technical schools
 207. Theologic schools
 724.7 Timber architecture
 027.4 Town libraries, public
 91 Travel, description
 508. " scientific
 341.2 Treaties, texts and history
 724.4 Tudor architecture
 288. Unitarian church
 922.8 " biography
 289.1 Universalist church
 922.8 " " biography
 378. Universities, history, reports, etc.
 027.7 University libraries
 724.4 Victorian Gothic architecture
 371.429 Vocational training
 324. Voting
 331.29 Wages
 922.4 Waldenses biography
 553.70 Waters, mineral
 940.4779 Welfare work, Gt war, by country
 940.4778 " " " in "
 376.9 Woman's education
 267.432 Women's Christian associations
 267.39 Y. M. C. A.
 267.59 Y. W. C. A.
 591.9 Zoology, geographic

Table 2—Form Divisions

The form distinctions 01, Philosophy; 02, Compendis; 03, Dictionaries; 04, Essays; 05, Periodicals; 06, Societies; 07, Study and Teaching; 08, Polygraphy, Collectiv works; 09, History, can be used wherever needed if these numbers are not already employ'd with other significations. They have been printed in the full tables only where they seem'd specially needed.

The following is an alphabetic list of these divisions, and the figures prefix should be *added* to the number of the subject to be subdivided; e. g. Disputations on Chemistry in general 540.4; Dictionaries of Mining 622.03.

06	Academies	02	Manuals
06	Acts of societies	08	Maxims
04	Addresses	01	Methods
06	Associations	08	Miscellanies
02	Charts	07	Museums
08	Collected works	02	Outlines
08	Collections	04	Papers
02	Compendis	05	Periodicals
03	Concordances	01	Philosophy
03	Cyclopedias	08	Polygraphy
03	Dictionaries	06	Reports of societies
02	Digests	05	Reviews
04	Discourses	07	Schools
04	Disputations	07	Seminaries
07	Education	06	Societies
03	Encyclopedias	07	Study
04	Essays	02	Systems
06	Exhibitions	07	Teaching
08	Extracts	01	Theories
09	History	04	Tracts
04	Lectures	07	Training schools
04	Letters	06	Transactions
03	Lexicons	08	Treatises
08	Libraries, collections, series	01	Utility
05	Magazines		

Table 3—Languages

The table below includes all languages mention'd in the classification, except those in 494—499, not yet subdivided.

Any language in this table may be subdivided like 420, English.

Any philologic topic in the index may be transfer'd to another language by replacing the initial figures of the language, as found in this table, by those of the second language also found here; e. g., Syntax, English language, in the index is 425.2. In this table, English is 42 and French is 44; replacing the 42 by 44 gives 445.2 French syntax. Hebrew is 492.4, and Hebrew syntax is 492.452.

A third way to subdivide the language is to prefix the language figures as given in this table to the philologic numbers given in Table 4.

All three methods give the same result.

491.58	Afghani	491.69	Basque
492.8	Amharic	491.44	Bengali
429.	Anglo Saxon	491.86	Bohemian
492.7	Arabic	491.68	Breton, Bas
492.1	Aramaic	491.81	Bulgarian
491.54	Armenian	492.6	Ca thaginian
491.68	Armorican	449.9	Catalan
492.19	Assyrian	492.2	Chaldee
491.52	Avestan, Zend	491.81	Church Slavonic
492.19	Babylonian	493.2	Coptic
491.52	Bactrian, Old	491.67	Cornish
491.68	Bas Breton	491.83	Croatian

- 492.19 Cuneiform
 491.65 Cymric group
 491.66 " or Welsh
 439.8 Danish
 439.4 Deutsch, Platt
 439.3 Dutch
 493.1 Egyptian, Old
 42 English
 427.01 " Old
 491.61 Erse, Gadhelic group
 491.63 " Gaelic
 492.8 Ethiopic
 477.5 Etruscan
 493.6 Faroese
 439.3 Flemish
 44 French
 447.01 " Old
 439.2 Frisian
 491.61 Gadhelic group
 491.63 Gaelic or Scotch
 43 German
 437.02 " Middle High
 437.01 " Old High
 439.9 Gothic
 48 Greek
 489. " Modern
 491.47 Gujerati
 492.4 Hebrew
 492.9 Himyaritic
 491.43 Hindi
 491.1 Hindu languages
 491.43 Hindustani
 491.53 Huzwadesh
 439.6 Icelandic
 491.1 Indic group
 491.62 Irish
 45 Italian
 492.4 Jewish
 491.83 Kroatian
 491.57 Kurdish
 47 Latin
 479. " Medieval
 491.93 Lettish
 491.92 Lithuanian
 491.93 Livonian
 439.3 Low Dutch
 479. " Latin
 491.64 Manx
 491.46 Marathi
 479. Medieval Latin
 437.02 Middle High German
 489. Modern Greek
 491.55 " Persian
 491.87 Moravian
 492.19 Nineveh cuneiform
 439.6 Norse, Old
 439.8 Norwegian
 491.52 Old Bactrian
 493.1 " Egyptian
 427.01 " English
 447.01 " French
 437.01 " High German
 439.6 " Norse
 491.51 " Persian
 491.91 " Prussian
 439.2 " Saxon
 491.45 Orissa
 491.56 Ossetic
 491.3 Pali
 491.42 Panjabi
 491.53 Pehlevi
 491.55 Persian, Modern
 491.51 " Old
 492.3 Peshito
 492.6 Phenician
 439.4 Platt Deutsch
 491.89 Polabian
 491.85 Polish
 469. Portugese
 491.2 Prakrit
 449. Provençal
 491.91 Prussian, Old
 491.58 Pushtu
 459.9 Rhaeto-Romansch
 489. Romaic
 459. Rumanian
 459.9 Rumansh
 491.7 Russian
 491.79 Ruthenian
 492.5 Samaritan
 491.2 Sanskrit
 429. Saxon, Anglo-
 439.2 " Old
 439.5 Scandinavian languages
 491.63 Scotch or Gaelic
 491.82 Serbian
 491.41 Sindi
 491.48 Singhalese
 491.81 Slavonic, Church
 491.87 Slovakian
 491.84 Slovenian
 491.88 Sorbian
 46 Spanish
 439.7 Swedish
 492.3 Syriac
 491.45 Uriya
 459. Wallachian
 491.66 Welsh
 491.52 Zend

Table 4. — Philological Divisions.

All the languages in Table 3 can be divided like 420, English, by adding the figures below; e. g.:

English orthography	421
Provençal	449.1
Arabic	492.71
Gaelic	491.631
Syntax of English verbs	425.8
“ Modern Greek verbs	489.58
“ Danish	439.858
“ Armenian	491.5458
Infection of English nouns	425.15
“ Anglo-Saxon nouns	429.515
“ Hebrew	492.4515
“ Welsh	491.66515

18	Abbreviations.	2	Derivation of words.
12	Ablaut.	7	Dialects.
16	Accent, pronunciation.	3	Dictionaries.
61	“ prosody.	25	Diminutives, derivation.
51	Accidence.	12	Diphthongs.
25	Accusative, etymology.	17	Diplomatics.
55	“ syntax.	701	Early forms of language.
26	Adjectival forms, derivation.	86	Elementary readers.
516	Adjectives, inflection.	53	Ellipsis.
56	“ syntax.	52	Enallage.
29	Adverbs, derivation.	83	Errors of speech.
59	“ syntax.	2	Etymology, derivation.
22	Affixes, derivation.	51	“ inflection.
11	Alphabet.	89	Examination papers.
21	Analogy.	63	Feet, prosody.
53	Analysis, grammar.	64	Figures of prosody.
67	Antistrophe, prosody.	82	First lessons.
28	Aorist, etymology.	63	Foot, prosody.
58	“ syntax.	24	Foreign elements.
7	Archaisms.	25	Gender, etymology.
709	Argot.	25	Genitive case, etymology.
53	Arrangement of words and clauses.	55	“ “ syntax.
56	Articles, syntax.	7	Glossaries, dialects.
12	Aspirates.	3	“ language.
28	Augment, etymology.	83	Grammatical errors.
83	Barbarisms.	65	Hexameters.
83	Blunders.	64	Hiatus.
25	Case endings, derivation.	54	Hypothetical sentences.
55	Cases, syntax.	31	Idioms.
87	Chrestomathies.	88	Individual authors, texts.
53	Clauses, arrangement of.	28	Infinitive mood, etymology.
516	Comparison, inflection.	58	“ “ syntax.
26	Comparison, signs of, derivation.	51	Inflection.
54	Conditional sentences.	516	“ of adjectives.
518	Conjugation.	515	“ nouns.
29	Conjunctions, etymology.	517	“ “ pronouns.
59	“ syntax.	518	“ “ verbs.
28	Conjunctive mood, etymology.	17	Inscriptions.
58	“ “ syntax.	29	Interjections, etymology.
13	Consonants.	59	“ syntax.
12	Crisis.	29	Interrogatives, etymology.
25	Dative case, etymology.	59	“ syntax.
55	“ “ syntax.	21	Laws of language.
515	Declension of nouns.	1	Letters, alphabet.

- | | | | |
|-----|----------------------------------|-----|--------------------------------|
| 3 | Lexicography. | 86 | Readers, elementary. |
| 3 | Lexicons. | 87 | “ selections. |
| 17 | Manuscripts. | 23 | Reduplication, derivation. |
| 65 | Meters, prosody. | 27 | Relative pronouns, “ |
| 28 | Moods, signs of, derivation. | 57 | “ “ syntax. |
| 58 | “ syntax. | 66 | Rhymes, prosody. |
| 52 | Morphology. | 66 | Rhyming dictionary. |
| 25 | Noun forms, derivation. | 8 | School books and texts. |
| 515 | Nouns, inflection. | 87 | Selections, readers. |
| 55 | “ syntax. | 54 | Sentences of particular form |
| 25 | Number, signs of, derivation. | 709 | Slang. |
| 701 | Old forms of language. | 81 | Spelling books. |
| 21 | Origin of language. | 14 | “ reform. |
| 15 | Orthoëpy. | 67 | Strophe, prosody. |
| 1 | Orthography. | 22 | Suffixes, derivation. |
| 17 | Palæography. | 4 | Synonyms. |
| 52 | Parsing. | 52 | Syntax. |
| 29 | Particles, derivation. | 28 | Tense signs, derivation. |
| 59 | “ syntax. | 58 | “ syntax. |
| 27 | Personal pronouns, derivation. | 8 | Text books. |
| 14 | Phonetic spelling. | 68 | “ “ for writing verse. |
| 82 | Phrase book. | 88 | Texts of individual authors. |
| 27 | Possessive pronouns, derivation. | 12 | Umlaut. |
| 57 | “ “ syntax. | 83 | Use of words. |
| 22 | Prefixes, derivation. | 28 | Verbal forms, derivation. |
| 29 | Prepositions “ | 518 | Verbs, inflection. |
| 59 | “ syntax. | 58 | “ syntax. |
| 27 | Pronominal forms, derivation. | 68 | Verse, text books for writing. |
| 517 | Pronouns, inflection. | 62 | Versification. |
| 57 | “ syntax. | 28 | Voice signs, derivation. |
| 15 | Pronunciation. | 12 | Vowels. |
| 82 | Prose composition. | 83 | Vulgarisms. |
| 6 | Prosody. | 53 | Words, arrangement of. |
| 7 | Provincialisms. | 2 | “ etymology. |
| 19 | Punctuation. | 83 | “ use of. |
| 61 | Quantity, prosody. | | |

Table 5. — Literatures.

The form divisions of English literature: 1, Poetry; 2, Drama; 3, Fiction; 4, Essays; 5, Oratory; 6, Letters; 7, Satire and Humor; 8, Miscellany; may be used to sub-divide any of the languages in the following tables; and any division of English literature in the index referring to this table may be used in sub-dividing another literature, by replacing the initial figures 82 (denoting English) by the figures of the 2d language as given in this table.

Thus Ballads, English literature in the index are 821.04 and in this table Spanish is 86, therefore 861.04 is Spanish ballads; 891.7 is Russian and 891.7104 is Russian ballads.

While this minute division is possible, it is not expedient in all cases: e. g. Icelandic literature will contain little except in one or two of these divisions and a special arrangement similar to 829 Anglo-Saxon is much more convenient.

891.58	Afghani.	891.43	Hindi.
892.8	Amharic.	891.1	Hindu languages.
892.7	Arabic.	891.43	Hindustani.
892.1	Aramaic.	891.53	Huzwaresh.
891.54	Armenian	839.6	Icelandic.
891.68	Armorican.	891.1	Indic Group.
892.19	Assyrian.	891.62	Irish.
891.52	Avestan, Zend.	85	Italian.
892.19	Babylonian.	892.4	Jewish.
891.52	Bactrian, Old.	891.83	Kroatian.
891.68	Bas Breton.	891.57	Kurdish.
891.69	Basque.	879.	Latin, Medieval
891.44	Bengali.	891.93	Lettish.
891.86	Bohemian.	891.92	Lithuanian.
891.68	Breton, Bas.	891.93	Livonian.
891.81	Bulgarian.	839.3	Low Dutch.
892.6	Carthaginian.	879	“ Latin.
849.9	Catalan.	891.64	Manx.
892.2	Chaldee.	891.46	Marathi.
891.81	Church Slavonic.	879.	Medieval Latin.
893.2	Coptic.	889.	Modern Greek.
891.67	Cornish.	891.55	“ Persian.
891.83	Croatian.	891.87	Moravian.
892.19	Cuneiform.	892.19	Nineveh Cuneiform.
891.65	Cymric Group.	839.6	Norse, Old.
891.66	“ or Welsh.	839.8	Norwegian.
839.8	Danish.	891.52	Old Bactrian.
839.4	Deutsch, Platt.	893.1	“ Egyptian.
839.3	Dutch.	839.6	“ Norse.
893.1	Egyptian, Old.	891.51	“ Persian.
82	English.	891.91	“ Prussian.
891.61	Erse, Gadhelic group.	839.2	“ Saxon.
891.63	“ Gaelic.	891.45	Orissa.
892.8	Ethiopic.	891.56	Ossetic.
839.6	Faroese.	891.3	Pali.
839.3	Flemish.	891.42	Panjabi.
84	French.	891.53	Pehlevi.
839.2	Frisian.	891.55	Persian, Modern.
891.61	Gadhelic Group.	891.51	“ Old.
891.63	Gaelic or Scotch.	892.3	Peshito.
83	German.	892.6	Phenician.
839.9	Gothic.	839.4	Platt Deutsch
889.	Greek, Modern.	891.89	Polabian.
891.47	Gujerati.	891.85	Polish.
892.4	Hebrew.	869.	Portuguese.
892.9	Himyaritic.	891.2	Prakrit.

849.	Provençal.	891.82	Servian.
891.91	Prussian, Old.	891.41	Sindhi.
891.58	Pushtu.	891.48	Singhalese.
859.9	Rhaeto-Romansch.	891.81	Slavonic, Church.
889.	Romaic.	891.87	Slovakian.
859.	Roumanian.	891.84	Slovenian.
859.9	Rumansh.	891.88	Sorbian.
891.7	Russian.	86	Spanish.
891.79	Ruthenian.	839.7	Swedish.
892.5	Samaritan.	892.3	Syriac.
891.2	Sanskrit.	891.45	Uriya.
839.2	Saxon, Old.	859.	Wallachian.
839.5	Scandinavian languages.	891.66	Welsh.
891.63	Scotch or Gaelic.	891.52	Zenī.

Biscoe time and Olin biography book numbers

Biscoe time numbers This scheme provides for arranging books by years from 1000 B C—2000 A D. Each number consists of a single initial letter followed by figures, and these again, if necessary, by letters. Any year of the 19th century, in which the greater proportion of our books belong, is designated by a letter and single figure. For the 3 preceding centuries a letter and 2 figures are needed, only incunabula and ancient writings requiring a letter and 3 figures. Few characters are wasted for the period when few books were written, as A, B, and C cover the years to 1499 A D.

To D, E, F, which stand for centuries, 2 figures must be added, the number for a book published in 1652 being E52; in 1507, D07.

B, covering the first 10 centuries and C, covering 5 centuries, must be followed by 3 figures; thus a book issued in 1472 would be numbered C472.

Table of Biscoe numbers

A	B. C.	J	1830-1839	S	1920-1929
B	A. D. 1-999	K	1840-1849	T	1930-1939
C	1000-1499	L	1850-1859	U	1940-1949
D	1500-1599	M	1860-1869	V	1950-1959
E	1600-1699	N	1870-1879	W	1960-1969
F	1700-1799	O	1880-1889	X	1970-1979
G	1800-1809	P	1890-1899	Y	1980-1989
H	1810-1819	Q	1900-1909	Z	1990-1999
I	1820-1829	R	1910-1919		

American books take their numbers from the last copyright date; English and other foreign books, from date of publication: e. g. Dana's *Text book of geology*, Phil. 1864, copyright '63 has as its booknumber M3; edition 2 of the same book published and copyrighted in 1874 is N4. Weller's *Portable atlas of physical geography*, London 1873, is N3.

A series or set takes its number from the first volume, even though that may be lacking in the library set; e. g. *Popular science monthly*, v. 10-20, is M2, the date of v. 1 not of v. 10. When more than one volume in the same class calls for the same number, these numbers are differentiated by adding lower case letters; e. g. Bradbury & Emery's *Academic algebra*, Sensenig's *Numbers universalized*, and Wells's *Short course in higher algebra* all published in 1889 call for O9. Supposing them to come into the library in the above order, Bradbury would be O9; Wells O9a; Sensenig, O9b. In a closely classed library additions to final subdivisions are seldom more than one a year. In the exceptional cases, use of a letter allows for 26 additions; the numbers are therefore neither long nor complicated.

If in doubt, an approximate date may be used and corrected later when full information is acquired. Hunting down obscure dates consumes a

great deal of time and in the average library is not worth what it costs. L alone would mean a book published somewhere in the '50s of the present century, and F9 one of the last decade of the 18th (F09 being the mark for 1709). This occasional uncertainty is analogous to the case of anonymous and pseudonymous books in an author arrangement.

Dates B. C. may be treated in any one of the 3 ways suggested below. If numbers are given from date of writing or first publication there will be a few A books; but if from date of printing or copyright, none at all. Of the 3 ways below of treating dates B. C. the first is best:

1 Subtract the decade B. C. from 99 and use the resulting number, thus securing correct order with a shorter number than in 2. This approximate date is close enough, since exact year of writing is difficult to determine and the number of books in any subject in a single decade small.

Alternatives are:

2 Subtract the date B. C. from 1000 and use the resulting number, which will secure proper sequence.

3 Use actual B. C. date, since among so few books no great confusion would result from thus inverting the regular order.

Resulting numbers would then be:

Year B. C.	Complementary decade (1)	Complementary year (2)	Actual date (3)
999	Correct order A00	A001	Inverted order A999
563	A43	A437	A563
73	A92	A927	A73
45	A95	A955	A45

Olin book numbers The best means of separating collective from individual biography is Olin book numbers. They are used exactly like Cutter author numbers; but as they translate all surnames of compilers into A followed immediately by figures, they precede the first Cutter number, Aa1 and thus automatically shelve biographic compilations before the cutterd individual lives; e. g. Strickland's *Queens of England* would be A84 (Olin number) and stand before a life of Queen Anne, An7 (Cutter number) whether classed 920 or 923.1.

See next page for table.

Table of Olin numbers

From *Library journal* 18:144

Name	Number	Name	Number	Name	Number	Name	Number
A	A11	Forr	A34	Lod	A56	Sch	A78
Ba	A12	Ga	A35	Ma	A57	Scr	A79
Bel	A13	Ges	A36	McT	A58	Sea	A81
Boy	A14	Goe	A37	Mat	A59	Sia	A82
Ca	A15	Grat	A38	Merr	A61	Sma	A83
Caro	A16	Ha	A39	Mo	A62	Squa	A84
Cel	A17	Hat	A41	Mos	A63	Sva	A85
Chim	A18	Hesi	A42	Na	A64	Ta	A86
Clar	A19	Hiu	A43	Nee	A65	Thau	A87
Coh	A21	Hov	A44	O	A66	To	A88
Coom	A22	I	A45	Pa	A67	Trum	A89
Cs	A23	Ja	A46	Per	A68	U	A91
Da	A24	Ji	A47	Ple	A69	V	A92
Day	A25	Ka	A48	Q	A71	Wa	A93
Dick	A26	Keno	A49	Ra	A72	Wats	A94
Doy	A27	Klu	A51	Rem	A73	Wha	A95
Ea	A28	La	A52	Rim	A74	Wit	A96
En	A29	Lann	A53	Rol	A75	X	A97
Fa	A31	Le	A54	Ru	A76	Y	A98
Fel	A32	Lind	A55	Sa	A77	Z	A99
Fit	A33						

If Cutter-Sanborn tables (in which vowels like consonants are followed by figures) are used, mark collected biography with A followed by a shortened Cutter-Sanborn number for author or compiler, writing the initial letter of the Cutter-Sanborn number with a lower case letter; e. g. Strickland's *Lives of the queens of England*, the Cutter-Sanborn number for Strickland being S917, would be markt As9 or Johnston's *Leading American soldiers*, the number for Johnston being J73, would be Aj7

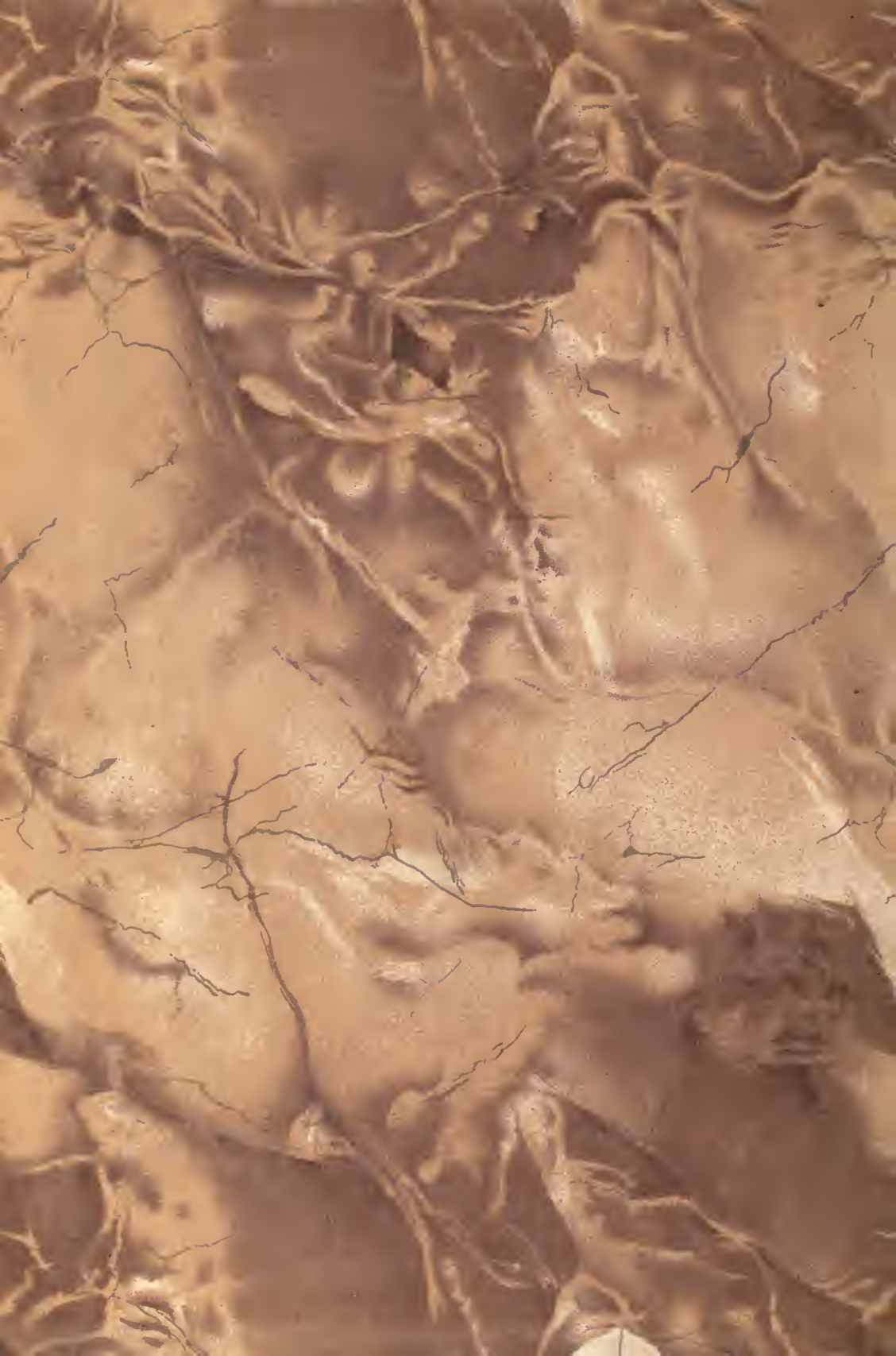


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